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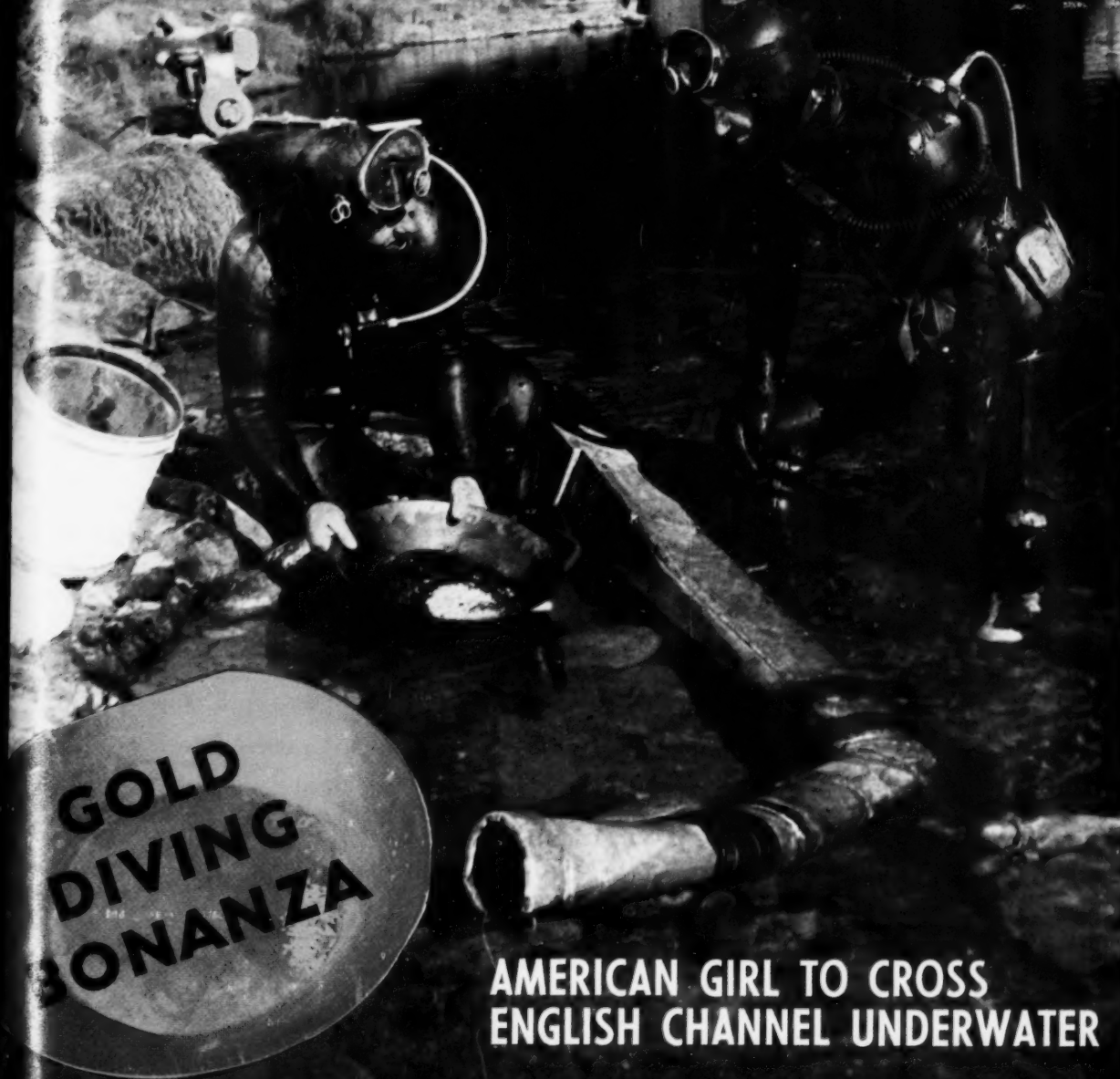
JUL 13 64

# SKIN DIVER MAGAZINE

August 1960

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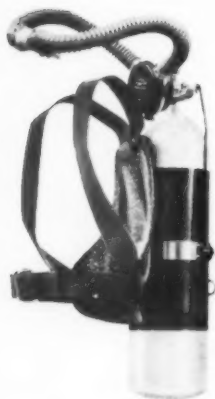
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*Terry Lentz*  
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**VOLT**   
NEW YORK 11 • CHICAGO 11 • LOS ANGELES 11

## Reader's Ripples



... I have just returned from Guaymas, Mexico, after a month-long diving trip and was surprised to find that the Mexican divers, along with the California divers, are in complete agreement with me about the use of scuba in the taking of fish. The following letter is an open attack on scuba fishing competitions.

Recently I completed an extensive survey of diving conditions along the West Coast. A matter of utmost importance has come to my attention and I feel that it is high time something was said about it. Nearly all of the experienced divers that I have talked to, and I am sure that most of the better skin divers throughout the country that I've not met, are in agreement with me.

The matter I speak of, is the practice of holding competitions that permit the taking of fish while wearing scuba. Those familiar with diving conditions in the Northwest will agree with me when I say that this area is one of the few in the country where there is any justification whatsoever for spearfishing with scuba gear. Most of the divers in this area feel that no matter what the conditions the holding of spearfishing competitions where scuba is permitted is a basic violation of diving as a sport.

Diving in competition without the use of artificial breathing equipment proves the prowess of the accomplished underwater athlete. Just what does a scuba fishing contest prove and why is it being so strenuously promoted? The general feeling is that the serious skin diver is being pressured out by commercial interests that favor the once-a-month diver. If this is the case the end result may be the complete destruction of all prestige the sport has been so rapidly gaining and possibly legislative action in the spearing of fish underwater.

Although this letter gives the impression that I hate anybody who dives with scuba, the reverse is true. The lung is a wonderful tool if used in the proper way. There may even be some justification for its use while taking fish. Competition, however, is certainly one place where scuba does not belong. Remember, swim fins are not permitted in water polo or in competition swimming.

Niel Dunmore  
422 South High  
Oregon City, Oregon

*Pro and con "never had it so good" as they will on this one!*

... In the recent issue of SDM you let Mr. Fox get away with a false statement. The reason I am writing is in the interest of safety for someone who may be trapped in a car underwater. What Mr. Fox doesn't realize is that no car is waterproof and that it would quickly begin to fill with water. Any air trapped in the automobile would quickly be compressed to pressure equal to the depth of water. So we can see there can easily be a real danger of embolism in escaping from a car underwater.

C. L. Alexander  
Marine Salvage  
2404 Fogarty Avenue  
Key West, Florida

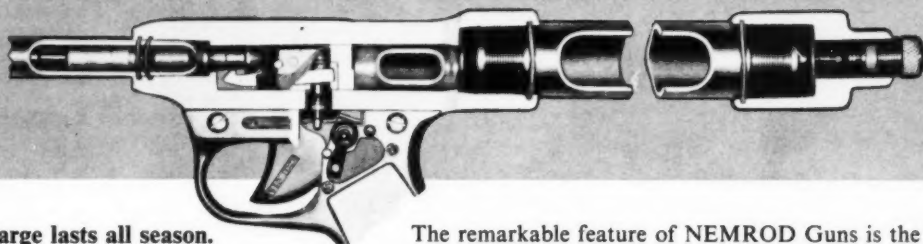
(More RIPPLES on Page 6)



# Nemrod

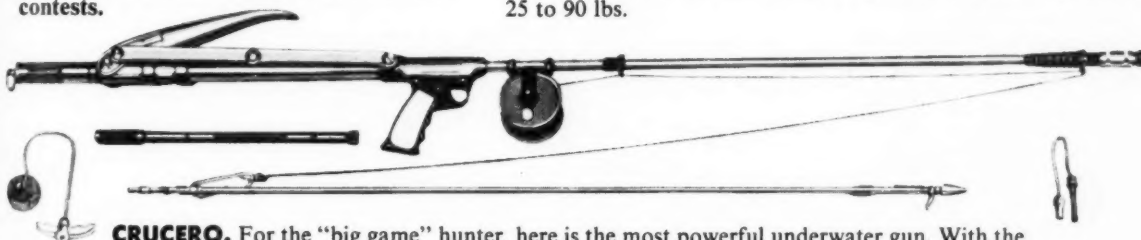
## PNEUMATIC UNDERWATER GUNS

### by SEAMLESS

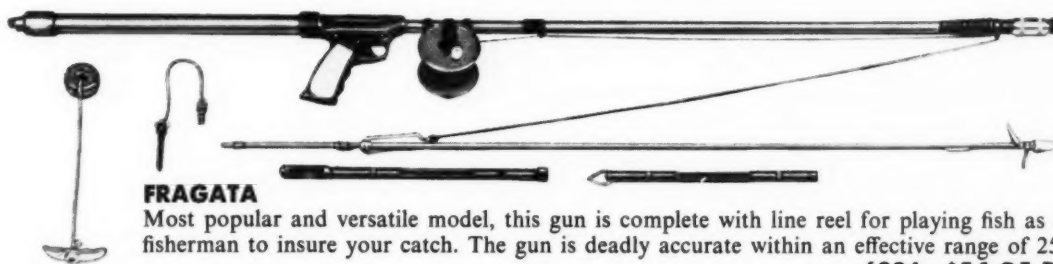


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# Skin Diver Magazine

LYNWOOD, CALIFORNIA, U.S.A.

Telephone NEVada 6-0581

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Skin Diver Publications, Inc.  
Entered as second-class matter  
at the post office at Lynwood,  
California.

## cover

Land bound prospectors of the past could do little more than dream about the rich seams of gold hidden under the rippling surface of the nearby streams...SDM presents with this issue over ten pages devoted to the modern prospector, who with skin diving gear, is searching and finding this very same GOLD. Cover photography by Don Horton.

JIM AUXIER

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CONNIE JOHNSON

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underwater  
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## Skin Diver Magazine

is published each month for underwater enthusiasts to create a further interest in skin diving and underwater spearfishing; to aid and advance scientific research through underwater swimming methods; to encourage and promote all types of activities participated in and caused by underwater swimming enthusiasts and to provide an advertising medium for manufacturers, distributors and dealers of marine products. All manuscripts, photography and materials are submitted free and released for publication, becoming the property of SKIN DIVER MAGAZINE, unless previous copyrights exist. Authors and photographers should clearly mark all material submitted for publication so that credit may be given. The publishers do not necessarily agree with, nor stand responsible for, opinions expressed or implied by others than themselves. SKIN DIVER MAGAZINE was established and has been published continuously since December 1961. Skin Diver Publications, Inc.

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August 1960

No. 8

## Editorial

### TEXAS CALLS THE NATION'S DIVERS DURING AUGUST...

August 19-20-21—The important Underwater Society of America Convention in Houston, Texas, at the Shamrock Hilton Hotel. Many divers plan to attend this event where policy, legislation, new officers, spearfishing competition rules and other nation shattering decisions will be made, but they have not placed their registration at the hotel. DO THIS IMMEDIATELY. Special rates are available and the convention plans are being made according to the advance registration. Be part of the master plan for the '60-'61 underwater year. If you're not there to speak, when the decisions are being made... don't complain when the results are not to your satisfaction. See you in Houston?

### TEXAS CALLS THE NATION'S UNDERWATER INSTRUCTORS DURING AUGUST...

Immediately after the Underwater Society of America's Convention at the Shamrock Hilton Hotel in Houston the NATIONAL ASSOCIATION OF UNDERWATER INSTRUCTORS will hold their first INSTRUCTOR'S TRAINING COURSE at the same hotel. The N.A.U.I. is sponsored by Skin Diver Magazine and the Underwater Society of America with sponsorship also pending from the YMCA. Each Council, skin diving shop and larger sporting goods dealer in the country should have at least one of their members in attendance at this CERTIFICATION TRAINING COURSE FOR THE UNITED STATES, CANADA AND MEXICO. It is imperative that leadership and underwater training be raised for the advancing growth of skin diving... the graduates of this specialized training course are the key men. See you in Houston?

Late word has been received that the National Triathlon Scuba Competition scheduled for New Orleans on August 11-13 has been postponed until a later date. Watch for further announcements on this event.

UNITED STATES WORLD SPEARFISHING TEAM HAS BEEN PICKED... Preparing for the start of the two day competition, six hours each day, at the Islands of Ustica and Pileurca in Southern Italy on August 21 and August 22 are DON DELMONICO, TERRY LENTZ and DEL WREN. Chosen as alternates are Paul Damman, Bob Manicki and Jerry Bastian. GO TEAM, bring back the World honors to the United States.

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# DIVERS' CALENDAR

- August 3 Competitive Spearfishing Committee meeting, Roosevelt Park, Los Angeles, Calif., 7:30 p.m.
- August 6 Conference of California Councils, Santa Barbara, Cen-Cal Council host.
- August 6-7 Louisiana Council eliminations for National Scuba Triathlon compass and endurance tests, New Orleans.
- August 6-7 Invitational tournament, Port Aransas, Texas. Sponsored by Corpus Christi Piscadores.
- August 7 Connecticut Open Spearfishing Championships, Napatree Point, R.I., noon-3 p.m.
- August 14 Connecticut Council spearfishing meeting, Fishers Island, noon.
- August 15-17 New Orleans-Grand Isle Scuba Divers 1960 International Tournament.
- August 19-21 Underwater Society of America First Annual Convention, Shamrock Hilton Hotel, Houston, Texas.
- August 20 ASDC Championship Tournament.
- August 20-21 Annual Championship Tournament, Atlantic Skin Diving Council.
- August 20-21 Cleveland Skin Divers Club Second Annual Underwater Games, Euclid Beach Park, Cleveland, Ohio.
- August 21-23 World Underwater Spearfishing Championship, southern Italy.
- August 22-26 National Association of Underwater Instructors Certification Seminar, Shamrock Hilton Hotel, Houston, Texas.
- August 26-28 Fourth Annual Southern Open Skin Diving Derby, Marathon, Florida.
- August 27-28 Ohio Council annual dive, Cedarville, Ohio.
- September 3-5 First Owen Sound International skin diving festival, Ontario, Canada.
- September 9-10 Atlantic Skin Diving Council annual general meeting and convention (location to be announced).
- September 11 Sonoma County Reef Runners annual spearfishing meet, Ocean Cove, California.
- September 11 Connecticut Council team championship meet (location to be announced).
- September 11 Metro Chicago YMCA open water meet, George Williams College, Lake Geneva, Wisc.
- September 18 Connecticut Council scuba meeting (location to be announced).
- October 21 Open ASDC Spearfishing contest, Indian River Inlet.
- October 26 Deadline Southeast Council of Skin Diving Clubs photography contest (movie category).
- November 3-6 Third Annual Netherland Antilles Spearfishing and Trolling Tournament, sponsored by Tourist Bureau and KLM Royal Dutch Airlines.
- November 27 Ark-La-Tex Gar Rodeo, Hickory Hollow, Lake Bislineau, near Shreveport, La.
- December 31 Atlantic Skin Diving Council Annual Dance.

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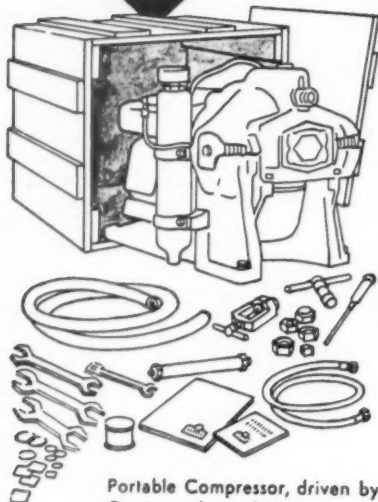
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*Reader's  
Ripples*



... Enjoyed the article in June's SDM by Gene Parker on the history and purpose of the Divers Flag. I've known of its purpose, but never of its origin. Enclosed is a photo of Richard Pfaff and some of our gear and, as you can see, we have our Flag (home made from a pair of pj's) flying the wrong way. It did its job though and it's against the club rules to dive in open water without a flag. Back home (western New York) many of the boaters didn't know what the flag was for and some of the hot rod boaters were using it as a racing buoy so the Aqua Knights and the Rochester Skin Divers, along with other divers in the area, tried to inform as many people as we could about the Divers Flag. Today, almost two years later, some people still have to be told, but we are trying !!! We all hope that some day soon the whole world will come to know the Divers Flag and why we are so proud to fly it. We now fly our flag the right way up!

Pat Waldron  
Fintwisters of Keesler AFB, Miss.

... I have been a faithful reader of SDM for over two years now. I must say that as far as I am concerned, it is the best magazine on the market. I mean the BEST. I only wish it would come out twice a month instead of only once. I have just recently noticed something while diving that someone might include in their "Avoiding sharks and 'cudas" notes along with painting shiny objects, etc., etc. I noticed that especially in murky waters if you are wearing a strap fin your heels stick out like a lighted sign saying "Free Lunch Sharks." I would suggest that if you are not wearing boots to at least wear dark colored socks to hide those shiny little tootsies of yours. If you don't and there are any sharks or 'cudas around, they may decide to chow down on those lovely pins. Then what would you do with those flippers?

Lee Cote  
USS Delta AR-9  
c/o FPO San Francisco, Calif.

Not that a water-soaked, calloused heel would taste like much ... but there is the idea, and the shark wouldn't care or know the difference. The white heels swirling around against a black suited background could attract attention.

(More RIPPLES on Page 10)

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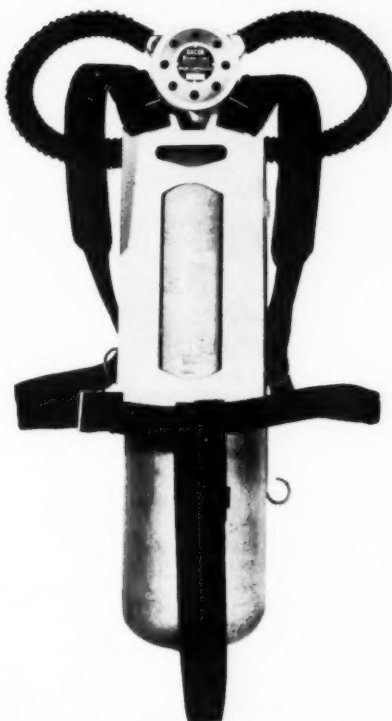
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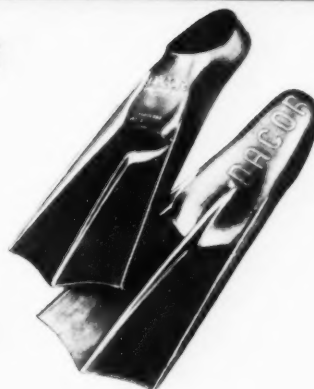
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## Reader's Ripples



... When will those who have the ability and resources, STOP fooling around with chemical shark repellents and start working on what will lead to the real answer. There are several possibilities that certainly warrant some consideration. The first of these is sound; the low frequency vibrations that attract the shark could just as well confuse or repel him. Another is electromagnetic wave energy, which might prove interesting. A strong magnetic field could also have an interesting effect upon Mr. Shark. Although I can think of several reasons that will bring a few angry retorts down upon my head, I will take that chance if I can arouse more interest in what I have mentioned. Aside from the work of the military, there is much to be done and gained by the diver from the field of underwater electronics.

Clifford C. Ervin II  
6210 Los Santo Drive  
Long Beach (15) Calif.

Of course you are right, there is much to be learned from research with electronics underwater. Compact transistors will probably advance this field 100%. Wonder whether the sharks will prefer AC or DC?

... First of all I would like you to know that I feel your magazine to be among the best in its field. I very seldom miss reading a copy and when I do it is due to lack of time.

I am contacting you people because I feel you might be able to aid me in contacting American parties IN BRAZIL who are interested in river diving in the Brazilian rivers.

Richard R. Miller  
193 Montecito  
Oakland, California

We have sent Mr. Miller several ideas on how to contact Brazilian river divers and others interested, but thought that you would want his address also.

... Mr. Eugene D. Vezzani, Financial Chairman, U. S. Team to the World Championship Committee; c/o Underwater Society of America, 66 Pryor Street N.E. Atlanta 3, Georgia—We are happy to send along our check for \$28.50 as a contribution to the Fund which will enable our United States champion spearfishing team to compete in the World Championship abroad this summer. This money represents \$.50 from each entry fee collected at the Kansas City Frogman Club Second Annual Spearfishing Tournament just completed June 12th at Pontiac, Missouri, Lake Bull Shoals. We are attempting to pass the word along to other clubs holding spearfishing meets this summer, in hopes they will follow suit and be able to make an even greater contribution to this worthy cause.

Kansas City Frogman Club, Inc.  
(Mrs.) June Poplar  
Treasurer  
4937 Highland  
Kansas City 10, Missouri

(More RIPPLES on Page 12)

SKIN DIVER—August 1960

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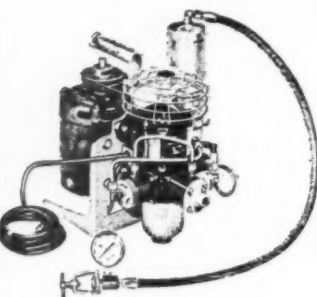
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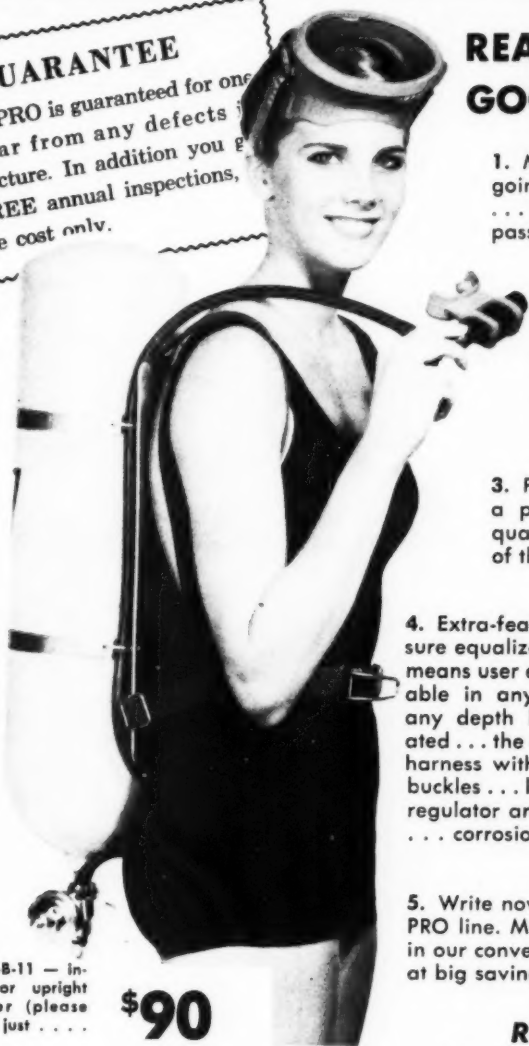
- Underwater Prospecting.
- Origin and Distribution of Gold.
- Equipment—from Snorkel to Dredge.
- Gold Recovery Techniques.
- Where to Prospect.
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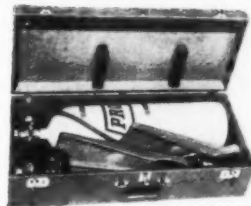


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\_\_\_\_ I have added \$5 for your special fins and mask offer . . . Shoe size \_\_\_\_.

\_\_\_\_ Please send me further information on PRO.

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY AND STATE \_\_\_\_\_

# Reader's Ripples

... I am an active diver interested in forming a skin diving club of amateur radio operators. If there are any who would be interested they can call either my wife or myself at Terminal 5-1976.

Donald & Esther Smith  
1118 D Ct.  
Wilmington, California

*There have been many subscriptions received where the call letters were included in the address... believe this will be a great combination of hobbies. Write or call the Smiths.*

... Kindly advise me as to sources of films on skin diving. We are interested in both training and entertainment types of films.

K. G. Compton  
Program Chairman  
Murray Hill Diving Club  
Bell Telephone Laboratories  
Murray Hill, New Jersey

*Most of the larger diving equipment manufacturers have films that are available. Also, many of the outboard motor companies have films that are sent to clubs and organizations. Public libraries in larger cities usually have film departments.*

... Our skin diving club, "The Sub-Committee of Washington, D.C." is seeking information about diving areas where clubs may go regardless of race, color or creed. We have been asked to help some newly formed clubs in and around the Maryland-Virginia-D.C. area to obtain this information.

The information we seek covers the United States and Territorial Possessions, and anywhere else diving clubs of this nation have been, as well as this immediate area.

Recently a club was formed in this area called the "Underwater Adventure Seekers." The club members have been thoroughly trained at the Jewish Community Center in D. C., are competent in the water, and in general, are a very fine group of young men. However, they have been handicapped as far as places to dive are concerned because they are Negroes. These young men own their own equipment and are raring to go. We have met them and know they are good divers. In addition, they are very nice men, good sports, and personable.

I would really appreciate all diving clubs who read this to write me and give me any information they may have pertaining to this problem. Please try to help us out, and any information you can send me will be gratefully received. Address all correspondence to me:

Mrs. Viola G. Beans, Secretary  
The Sub-Committee  
1322 South Pollard St.  
Arlington 4, Virginia

... I would like to take this opportunity to express my thanks to everyone throughout the country who sent me the information I

requested some time back concerning Y.M.C.A.'s that offer the use of their pools to diving clubs. The response to that letter was tremendous. I'm happy to say that we have the unlimited use of an outdoor pool for training during the summer months.

Since the response was so great, perhaps this would be a good opportunity to try to locate a man with whom I dived a great deal on Guam from 1956-1957. His name is Thomas R. Sensiba, and his home state is Wisconsin. If he reads this letter in SDM, perhaps he will take it upon himself to write me. I would like very much to hear from him again. Thanks again to everyone who was concerned enough to write and offer help in solving our problem. It shows that divers everywhere can stick together to get things done.

Randolph L. Dollis  
Lone Star Divers  
4012 Wiman Drive  
Fort Worth 19, Texas

... This is in protest to those who advocate the buddy system of diving.

It is all very good to say "don't go skin diving alone," but I have purchased about \$200.00 worth of gear, am avidly interested in the sport, go every weekend in the summer when possible, in the ocean, and have been going skin diving for about six years. But when I talk up the subject, about 90% of the time these so-called skin divers have other things to do.

I finally got so sick and tired of these disinterested people, I decided to go by myself. I realize it could be dangerous, but what would anyone else do in my position? I have also joined two different clubs in six years but this didn't help either.

Edward C. Benoit, Jr.  
13 Kimball Rd.  
Methuen, Mass.

*Surely you can find a buddy in a state that is as well organized as Mass. Look for someone with similar likes, ambitions, jobs etc. Travel to several club meetings. File your name with the Council. Don't wait for them to come to you.*

... Your readers should find the following true experience amusing. Some divers in this area prefer using corn starch to powder their suits rather than talc. They claim that it's more efficient, cheaper, and can even be eaten. However, one mishap has taken place.

It seems that one of the most staunch supporters of this material ran out of this "God's Gift To Divers," and asked his mother to fill his dispenser with her kitchen stock. Several hours later it was time to put on the suits. Several divers besides himself used the dispenser and all experienced only slight difficulty in entering them. However, later in the afternoon when they were going into the water for a second time, they discovered that their suits were sticky and covered with sand! Exclamations of "damn greasy water" and others unprintable were heard. Even after a thorough washing in the salt water it was with the greatest difficulty that the suits were put on.

On returning from the dive our hero told his mother of the "water conditions" that he had been subjected to that day, and thanked her again for the corn starch.

"Oh, that wasn't corn starch I gave you. I gave you powdered sugar by mistake."

Ron Terceira  
Brooklyn, New York

*White flour or baking soda could be fun, too!*

(More RIPPLES on Page 14)

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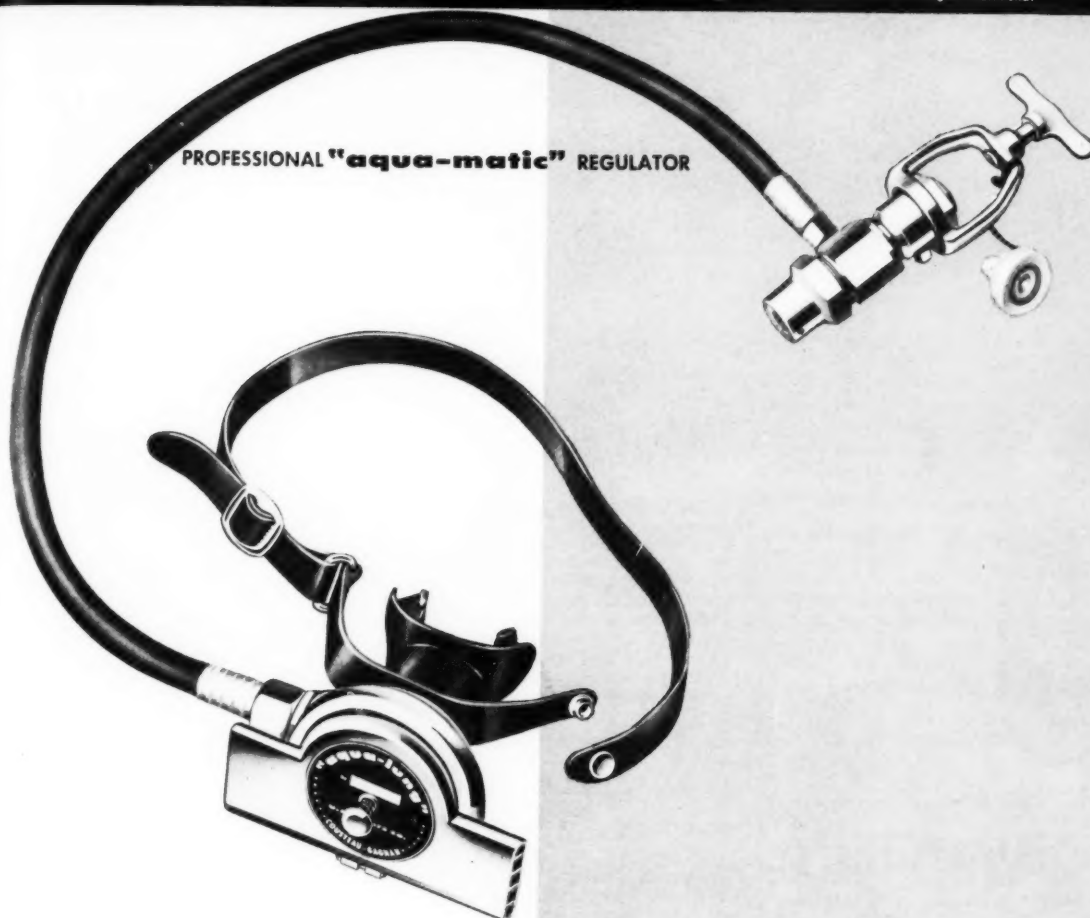


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## Reader's Ripples



. . . I am writing concerning Mr. J. R. Fox's letter. I thought that you had to be breathing compressed air to get air embolism. Please explain.

J. T. Manship, Jr.  
R.F.D. #2  
McColl, South Carolina

See Mr. C. L. Alexander's letter on Page 2. We believe that, although the danger of embolism is slight because of the lack of depth in most cases, that the escaping driver or passenger should generously exhale on the way up after getting out of the car.

. . . In the May issue (Question and Answer Column, page 44), I saw a letter concerning the changing of the Divers Flag. To me this is ridiculous. Much time, money, and a tremendous amount of effort has been spent to popularize the present Divers Flag. I think it is a good flag, and one that has been well accepted. The boating public is rapidly becoming acquainted with this flag. To change would cause confusion, and this could be disastrous.

In my opinion it would be smart thinking if the commercial hard hat divers also used the Divers Flag.

A. H. Chappelka, Jr.  
Marine Contracting  
Stuart, Florida

Thanks for your opinion and your suggestion that commercial divers also start using the Divers Flag. There is absolutely no reason for any other type of symbol to depict "diver down" or "man working underwater" to be used except the Divers Flag.

. . . It has been brought to my attention that I should combine my two hobbies and be of some help to skin divers. I am secretary of Club SousMarin of Long Island and also owner of the club's radio station. When the club packs up and goes out to Montauk Point, L.I., I keep in contact with a friend's station by use of a mobile radio station . . . my friend also relays any messages to the homes of the members. But now to get to the point . . . I want to make contact with any skin divers who are also "hams" and I would be willing to give weather, water and any other information that they would like.

I have noticed that many divers come to Montauk from other states outside of New York and have a lousy weekend because of bad weather they didn't know about. Please let your readers know of my intentions . . . my amateur radio call letters are WV2INE and I am presently limited to code.

Steve Cohen  
WV2INE  
102-45 62 Rd.—Apt. #3U  
Forest Hills 75, New York

A tremendous idea. A few of these diver stations around the country would save countless miles and heartaches. Also there are many divers interested in amateur radio. Perhaps they can get together on the wave lengths.

## underwater "dungarees" why not?



You need a DUK-SUIT for the same reason you wear dungarees . . . to work in. What kind of work? Gold diving, for example. Your "regular" wet suit isn't made for scraping along river bottoms and ocean beds. A DUK-SUIT is! Listen! Reinforced at knees and elbows . . . and padded! Super strong "V" underarm and crotch construction. No seams to rip out. Fits like a glove. No bulges, creases, or folds. Keeps you warm and comfortable. Hood diverts water away from neck and back. Perfect fit guaranteed. Simple, elegant design for women.

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### THE DIVERS DEN

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## OREGON DIVERS AND CLUBS: INFORMATION

An information source and diving report center is being created by Laura Louise Hales to bring the Oregon State divers and clubs closer together. Evidently there are hundreds of divers active in Oregon that would like to be recognized by the magazine and the diving world, these are unattached divers and are not covered by club reports. Also there are several clubs in the region that are not organized with the state council that also wish recognition. Laura Hales may be reached at 245 Mayberry Lane, Corvallis, Oregon. She will be reporting much of the states diving news to the magazine and all divers are urged to keep her informed of their activities throughout the state.

## SDM Subscription Rate Changed for Canadians

At long last divers, readers and subscribers in Canada will be able to purchase subscriptions to Skin Diver Magazine at the U.S. rates of \$4 for one year, \$7 for two years and \$10 for three years. This will certainly be good news to thousands of Canadian underwater enthusiasts who have plagued the Skin Diver mailbox wanting to know why they were required to pay \$1 more for their subscription. New mailing methods, and faster subscription handling here at Skin Diver Magazine enables us to include the Canadian subscriptions in the regular U.S. mailing zone rates . . . thus the lower rate.

## Did Man Come From a Sea-Ape?

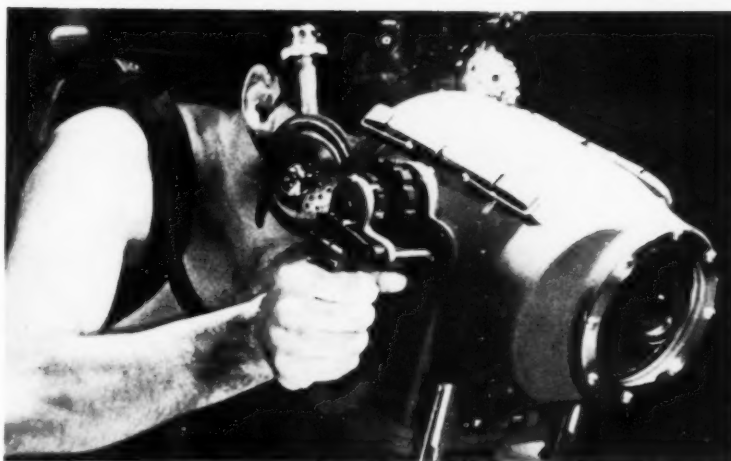
Sir Alister Hardy, distinguished Oxford zoologist, told a recent conference of marine scientists in England that thirty years of research has convinced him man is descended from a hairless ape who lived in the sea. About a million years ago, Sir Alister believes, competition for food forced some land-based apes to take to the sea, where they learned how to swim, and, because water helped to support their bodies, finally to walk upright. About 500,000 years ago, he contends, they emerged as men, now able to reconquer the continents, running and hunting other land creatures.

Sir Alister Hardy's work in marine biology and fisheries research is mentioned in "Fisheries Research in Hong Kong," *Sea Frontiers*, Volume 6, No. 1, February, 1960. —Sea Secrets.

## Underwater Talkathon

NEW YORK—On June 29th scuba diver Judy Joye set a new record when appearing as a guest on the "LONG JOHN" NEBEL SHOW (WOR-Mutual Network). From 12 midnight to 5 a.m. the next morning they saturated the air waves with a five-hour talkathon of continuous broadcasting about skin and scuba diving. This is believed to be the longest broadcast ever attempted on diving . . . if anyone wishes to go longer, a box of throat lozenges to the winner!

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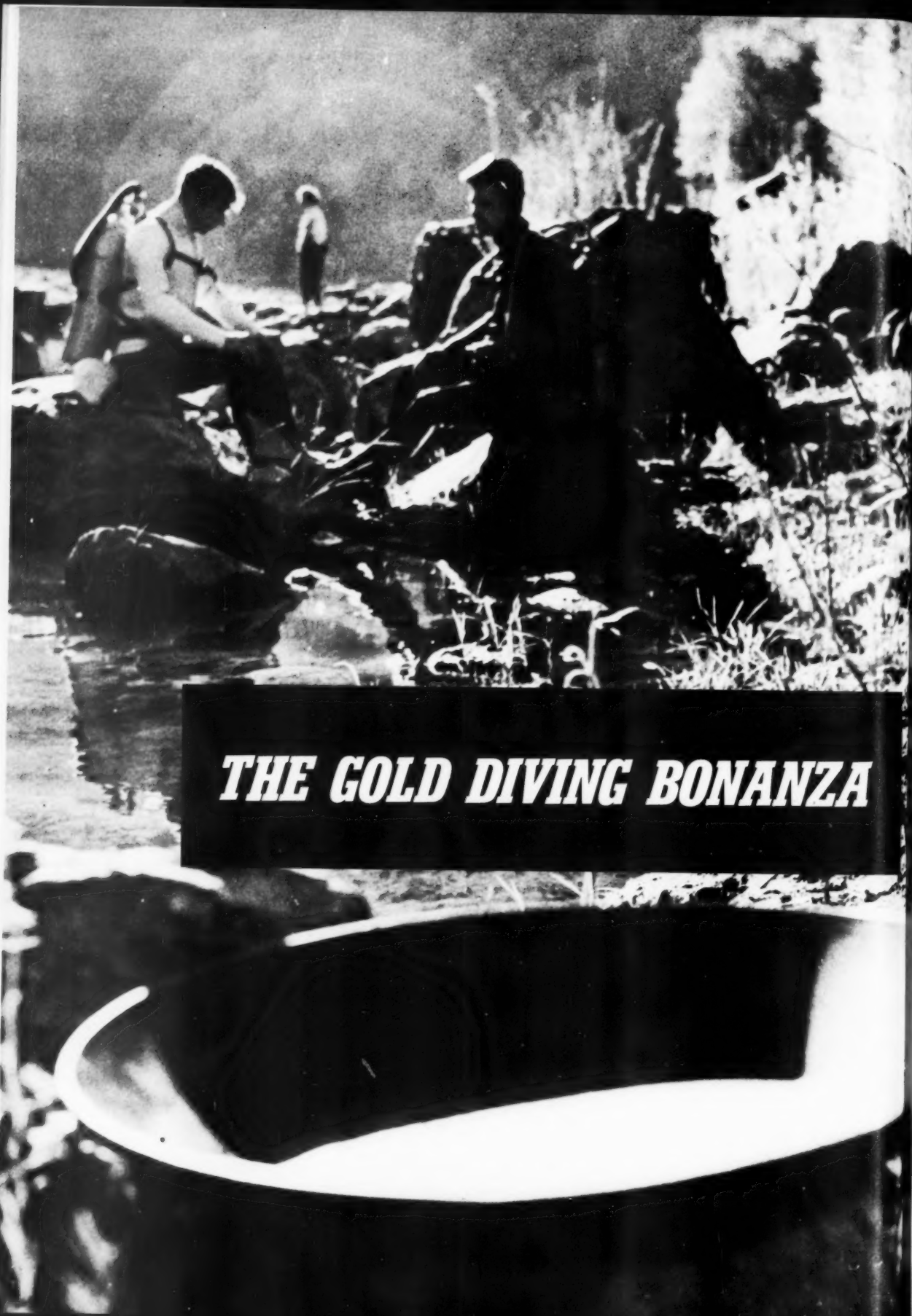


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## ***THE GOLD DIVING BONANZA***

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SKIN DI

## By KEITH FULLER

Author of "Diving for Gold"  
Published by Underwater Enterprises  
1317 20th St., Sacramento, Calif.

Photographs by Don Horton

**I**F OLD King Midas with his legendary lust for gold had been able to get his hands on a snorkel and grease gun he might have been spared a lot of grief!

Exaggerated? Perhaps! But a growing number of eager divers are discovering the key to a golden treasure hidden in the deep folds of bedrock crevices on the bottom of streams surging through gold country.

In the early stages there were only a handful of hardy souls, armed with little more than enthusiasm and a pair of tweezers, who began to peck away at the rich seams of gold. However, as the word is spreading, the trickle of divers is beginning to develop into something with all the earmarks of a stampede. The casual "pecking" is giving way to fully equipped divers armed with sniffers, underwater dredges and continuous air systems—all directed toward recovering the bright yellow metal trapped on the bottom. The diver has the only access!

### AQUATIC PROSPECTOR PIONEERS

While today's gold diver can certainly consider himself a pioneer, at least part of his thunder has been stolen by earlier attempts to tap the wealth on the bottom. As early as 1849 an enterprising miner outfitted himself with what the papers of the time described as "subaqueous armor." These early accounts were so enthralled with the novelty of the approach that they failed to detail the results of the attempt. However, the questions raised about this early pioneer's sanity were later put to rest when in 1904 the Huron Submarine Mining and Construction Company spent \$110,000 to outfit an especially designed barge for gold diving.

Working an area on the Sacramento River above Redding, California, this barge lowered a caisson to the river bottom and a crew of hard hat divers spent five hours a day on the bottom, hosing the rich bottom concentrate into a pump which sucked the gold laden sand up to the barge for sluicing.

In this fashion the enterprising company was able to process over 1,500 cubic yards of overburden a day and afford to pay the divers \$125 a month—a princely sum in the day of the 5c beer with a free lunch on the side!

Again in 1917 another eager gold diver hauled his hard hat gear to a site on the American River and tried his luck on the bottom. His patient wife manually pumped air from the bank, and as anyone who has ever worked a back breaking manual pump can attest, she must have had great faith in her husband's idea!



The underwater search for color is as old as time, above is a scene from 1917 when one of the hard-hat boys and his missus were on the search.

SKIN DIVER—August 1960



A typical gold diving site in the California Sierras. Notice the divers' rafts in left center and right foreground.

Most of these early divers were the objects of hoots of scorn and derision and unfortunately most of them failed—not because the gold wasn't there—but because the equipment wasn't equal to the particular demands of the alien underwater environment. The fact that they tried at all is significant in view of the problems involved working on the bottom of current swept streams in the unwieldy suits with their delicate pressure adjustments, heavy lead shoes and dragging air lines. This lends another dimension to the lure and promise of gold, driving men into the depths with such equipment.

At the same time the early diving attempts were being made the more conventional miners also were trying to exploit the gold they knew was trapped in the deep pools. Flumes were built to divert entire sections of rivers, exposing the bedrock to the eager miners. Other miners built wing dams from the bank and then used ingenious water wheel systems to bail out their little pools and lay bare the bottom—all designed for a single purpose—to get to the bottom crevices.

### SNIFFERS AND SCUBA

For all practical purposes, however, the introduction of scuba gear became the beginning point of any really efficient exploitation of the wealth on the bottom. Scuba with its happy combination of simplicity, portability and underwater mobility, offered the long needed key to an efficient entry into the silent, current swept depths.

The final link of the chain was closed with the introduction of sniffers and efficient underwater dredging equipment, putting gold diving on a workable footing and allowing gold recovery in amounts sufficient to bring a gleam into many a tired old eye!

### DREDGE, RIFFLE AND HOOKAH

Most modern jet dredges look like a vacuum cleaner with a hormone problem. The dredge itself is little more than a metal pipe with a 90 degree elbow and a built-in riffle box. Water is pumped under pressure from a surface raft to a valve near the head of the dredge, creating a vacuum which sucks in the sand and rock overburden which is blown the length of the dredge over a set of gold trapping riffles. The tailings are then ejected without ever moving the material to the surface. The so called "Venturi" action of "jet" dredges utilizes the simple principle of water pressure creating a vacuum.

While some dredge operators use air tanks, most diving teams have switched to a "hookah" system supplying all the air necessary from a low pressure compressor driving

(Continued on Next Page)





Underwater dredge in operation—hose supplies water creating vacuum at dredge head.

a surface engine. Air hoses extend from the compressor to a standard regulator on the diver's back. With this type of equipment a team spends six to eight hours a day on the bottom without any time lost refilling air tanks—and lost time to the gold diver is not measured in minutes and hours, but in flecks, flakes and nuggets of the bright yellow metal.

#### COMPRESSOR AND WATER PUMP

New dredges are designed in a compact unit with one gas engine driving both air compressor and water pump. While this has the obvious advantage of portability, it is even more important as a safety factor.

With a buffer or reserve air tank on the surface between the diver and the compressor, any engine failure will immediately be apparent to the divers when the pump supplying water to the dredge stops and the dredge ceases operation. At the moment the dredge cuts off the divers *know* the surface engine has stopped and can utilize the one minute or so of air in the reserve tank to surface.

If separate engines are used to supply power individually to the pump and compressor any engine failure on the compressor will not be apparent until *after* the divers have unwittingly used up all of the air in the reserve tank!

Jet dredges have two practical purposes as far as the gold diver is concerned. First: To sluice the overburden of sand and rock and extract its gold content. Second: To remove the overburden which lies like an all enveloping mantle over the bedrock, allowing the divers to expose the rich bottom seams which serve as a natural trap for the gold as it works its way down through the uneasy, shifting bottom.

The same natural cycle of erosion carrying the bright flecks of gold into the streams also strews the bottom with a thick overlay of sand, gravel and boulders which is the villain of the bit as far as the diver is concerned. Varying in thickness from a few inches up to 40 or 50 feet, it stands as a barrier protecting the bedrock crevices.

#### CAVE-IN

While a dredge will chew a hole 10 feet deep through the overburden in a relatively short time, the current nibbles and pecks relentlessly at the edge of the excavation,

raising the ugly specter of cave-in trapping the diver. Since the "pickup" man on the dredge team lies on his stomach with his face a few inches away from the dredge head as he directs its action and removes stones too large to be processed, he is particularly vulnerable if the hole begins to crumble. Thus, the practical limit of overburden depth is generally limited to about 10 feet—anything more will involve an excavation of such proportions as to be impractical—at least with so many other rich areas begging to be worked without such heavy overburden.

#### INHALING 10" ROCKS

The processing of overburden is in direct relationship to the diameter of the dredge head which may vary from less than one inch to eight inches. A typical four inch dredge will handle rocks up to 3½ inches in diameter—anything larger will be moved by hand by the pickup man and placed in a five gallon can. When the can is full it is hauled away from the area being worked. A typical eight inch outfit will inhale and eject rocks up to 7½ inches in diameter and chew through as much as 20 yards of normal overburden in an hour—and in some areas the overburden may mean gold recovery of \$1 to \$3 per yard!

Handling the dredge operation is strictly a two man job from the standpoint of both safety and efficiency. The "dredge man," wearing 40 to 50 pounds of weights to help brace against the current, holds the dredge and stands as lookout for emergencies. The pickup man lies on his stomach and directs the dredge head and moves rocks too large to be handled by the dredge opening. He also strips the gold from the crevice once it has been exposed.

While sluicing the overburden can be a prosperous pastime the lion's share of coarse gold recovery comes when the virginal bottom crevices are stripped. Some dredges use a smaller diameter fitting on the pickup head to work into crevices but most divers find it is better to utilize a gold sniffer for the final gold recovery.

#### TAKE LARGER NUGGETS BY HAND

The sniffer is affectionately called the poor man's dredge and comes in an amazing array of shapes and types. It may be as simple as an old turkey baster, or a tube with a transparent chamber and squeeze bulb or the old reliable grease gun with a flexible nozzle. No matter how prosaic the sniffer may seem to the uninitiated it is close to the gold diver's heart since its snout pokes into the crevice and pulls out the heavy concentrate for later panning. Nuggets too large for the sniffer are simply pulled out by hand!

For the snorkel or scuba diver interested in a weekend or vacation trip to try a hand at gold diving, the only equipment really necessary is a crevicing tool, sniffer and gold pan. A snorkel diver, for example, can start working

Testing the engine and pump of the dredge for power before attaching it to the dredge. Photo: Portable Drill and Dredge Co.





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a crevice from the water line down by simply "fanning" the crevice with his hand, blasting out the debris and small rocks, leaving the rich bottom deposits to be taken out with the sniffer.

A teenage boy in the Downieville area of California watched a team of dredge operators at work in the area and peppered them with questions whenever they stopped to check the engine or have a cigarette. A few days later he turned up with a mask and snorkel and began working the crevices in shallow water. By the end of his summer vacation he had taken out more than \$700—and all of his time was spent in less than three feet of water with only the trusty sniffer!

Divers with scuba tanks can follow the crevices until the thickness of overburden increases to the point it blocks further effort.

### DIVE SHALLOW

Few divers, whether equipped with hookah or scuba equipment, try to work the gold in depths much over 30 feet. While most jet dredges will operate efficiently as deep as 50 to 70 feet, the problem of decompression and the dangers of such diving with an unattended surface engine make it impractical. Furthermore, there are so many areas no deeper than 15 to 30 feet with great potential that the average experienced gold diver doesn't waste his time in the deeper pools.

Along this line, a team of experienced gold divers, with the best equipment available and working a full six hours a day on the bottom, will work no more than 100 yards of river bottom in a month! While that 100 yards may not seem like much when viewed from a convenient spot on the bank it is a big stream with thousands of crevices when you are under the surface and it may take an entire day to strip a few feet of crevice.

Successful diving teams are working at gold recovery with the same discipline and efficiency which would be applied to any job. A typical day's diving involves a minimum of three hours underwater in the morning broken only by an occasional cigarette and check on the gas supply. The afternoon will be the same. Sound Rugged? It is! On the other hand, these divers are pretty well convinced it is well worthwhile when the cool of the evening descends and they pan out and weigh the bright flakes and nuggets trapped in the sniffer and dredge riffles—this is the part of the day that makes it all worthwhile!

### WEEKEND PROSPECTORS

What does it cost to get into the gold diving business: The answer is, surprisingly little. Many weekenders make impressive showings of color with only a mask, fins, snorkel and sniffer, involving an outlay of no more than \$25 to \$30.

Dredging equipment comes higher but increases the recovery potential many times over. An efficient portable outfit will run from \$300 to \$600 depending on the size of the dredge and the engine. An outlay of an additional \$250 to \$300 will outfit two men with wet suits, regulators, weights and assorted diving gear necessary to put them in business.

Thus, for as little as \$30 and for no more than \$900, anyone can join the ranks of divers ferreting out the golden treasure trapped on the bottom.

How are the professional, full time gold divers making out? It is hard to say! The veteran gold diver is usually loquacious and willing to talk about anything except the amount of gold he is getting! As a matter of fact there is an inverse relationship between the amount of gold taken and the amount of talking done about it. However, an increasing number of quiet type divers are moving into gold country—and they are wearing some pretty impressive grins! 🐟



Husband and wife team, Benny and Joyce Jordan, check the day's take in the gold sniffer. The Jordans spend many of their weekends in the nearby mountain streams and rivers.



Gold diving is not all fun and profit... repairs have to be made on the equipment, hoses need patching, engines need service, and the gold has to be found.



Exploring with hand tools is many times necessary to find the best location before the dredge can be used successfully. The trained diver/miner's eye investigates the small cracks for the stray nuggets that get trapped in the crevices.

## Court of Appeals Finds We Can Buy, Sell and Hold Gold Legally

By G. R. WATSON

Contrary to everyone's belief and the rulings and regulations of the U.S. Treasury Department, it is illegal to arrest a person for having melted gold in his possession. In other words we, the American people, have had it put over on us for the past 26 years, or ever since the passage of the Gold Reserve Act in 1934. This fact is brought out in the following communication:

A current case in the Federal Court bears directly on this subject. It concerns possession of gold bullion by a man in the state of Washington. The Federal Court charged him with a criminal act, for which he was arrested, tried and sentenced to jail.

The case was appealed and after consideration by the Court of Appeals, has been remanded to the original court for corrective action and dismissal. The criminal charge of gold possession was based on the original emergency orders of the president early in 1933, on subsequent Treasury Regulations and on the Gold Reserve Act of 1934. Now it is found by the U.S. Court of Appeals that there are no criminal penalties provided in the Gold Reserve Act for possession of gold and no criminal statutes authorized by Congress.

The Gold Act of 1934 established the status of gold owned by the U.S. as merely commodity gold and abolished any former status it may have had as money or monetary gold. It becomes private property, therefore, neither Congress nor the Secretary of the Treasury has any power or authority to prevent U.S. citizens from buying, selling or holding gold.

There is now a carefully prepared case in progress in Federal Courts to terminate all control of newly mined commodity gold under Treasury regulations.

(The above report comes from the May 1960 issue of the California Mining Journal and is based on trial of Harold G. Bauer, Appellant vs. United States. Originally tried in Seattle, Washington, and taken to U.S. Court of Appeals, Ninth Circuit, San Francisco, California. Can be found in #244 Federal Reporter, Page 794, January 29, 1957.)

## MINERAL RIGHTS AND REGULATIONS

The following was prepared for California mining only by Mr. W. B. Clark, however this same information will apply in many other states.

When searching for gold in California's streams, the skin diver should be acquainted with the many regulations that govern the acquiring of mineral rights, prospecting and mining operations, and the buying and selling of gold. All lands, including the beds of unnavigable streams, belonging to the United States, both surveyed and unsurveyed, are open for mineral exploration. This includes much of the land within the boundary of a national forest, but this is subject to the jurisdiction of the United States Forest Service. Land that is not open for location is that which has passed into private ownership. This includes patented and valid unpatented mining claims. Other lands which are not open for mineral prospecting are reservoir reservations, most power sites, the bed of a navigable stream (most mountain streams in California are unnavigable,) certain lands owned by the State of California including land which has been deeded to the State of California for unpaid taxes, State parks, State forests, and State institutions, lake beds permanently covered by water, National parks and National monuments, certain wilderness areas, land situated below mean high tide, and military and Indian reservations.

No maps exist that show the locations of land open for mineral exploration. The ownership status of land in any given area can be determined by first carefully examining the area for ownership signs, location markers, or monuments. If none can be found, a check should be made of the county records maintained at the offices of the county assessor and recorder at the county seat. Deed and patent records are kept in the office of the county assessor, and records pertaining to unpatented mining claims are kept in the office of the county recorder. Records of patented land also are maintained at the U.S. Bureau of Land Management in Sacramento and Los Angeles. If the land is privately owned, a mining lease often can be negotiated with the owner or owners. If it is owned

by the State of California and was part of a grant from the Federal Government to the State for school purposes, it can be leased from the State Lands Commission (State Building, Los Angeles and 1401 Twelfth Street, Sacramento).

If the land is neither located, privately owned, or in any of the other categories listed above, it is on the public domain and open for mineral exploration. The amount of land open for mineral exploration in California has become smaller and smaller each year. Most of the claims in the older mining districts were located many years ago, and a high proportion of them are still valid.

Placer mining on the public domain without the benefit of a legally located claim is called "sniping" and initiates no legal right to the property. A person operating under these conditions, a "sniper," risks the possibility of dispossession by later claimants.

Placer mining operations are subject to the regulations of the California Fish and Game Code, California Water Code, and county and city ordinances which provide for the protection of domestic water supplies and limit the discharge of debris into streams. Hydraulic mining in tributaries to the Sacramento-San Joaquin River system is allowed only under permit from the California Debris Commission of the U.S. Army Corps of Engineers, Wright Building, Eighth and L Streets, Sacramento.

Gold in its natural state may be acquired or transported within the United States without the necessity of holding a license. This includes gold nuggets, gold dust, and untreated gold-bearing quartz. However if it has been amalgamated, refined, or otherwise treated by heating, or by a chemical or electrical process, it must be sold to the United States Mint or to a licensed gold buyer. This category includes gold sponge resulting from the retorting of gold-mercury amalgam by the person who recovered the gold. The limitation on the possession of retort sponge is 200 ounces.

# PROSPECTING and MINING

(from "Mineral Information Service Bulletin")

California Division of Mines)

When prospecting the streams, the skin diver should be able to recognize the most favorable places for the occurrence of gold. The first step involves a careful examination of the streams and the terrain adjacent to them. Natural features that should be noted are the topography, nature of the bedrock including joint and crevice systems, stream currents, bends in the stream, and visible underwater features such as crevices, large boulders, or any other type of barrier. The deposition of gold is the result of the action of flowing water coupled with the shape of the stream channel and stream bed which acted as natural traps. The processes involved in the action of flowing water are extremely complex as they are dependent upon a number of variable factors, the most important of which are (1) shape of the channel, (2) volume of water and (3) the slope of the stream channel.

Wherever the natural features or a change in the volume of water flowing have caused a sudden decrease in stream velocity, conditions are favorable for gold prospecting. A decrease in velocity lowers the carrying power of the stream which begins to deposit its load. The heaviest particles including gold will be dropped first. Thus concentration of gold can be expected where the stream widens, near quiet pools below rapids, or along bends in the channel. In a straight channel the current is swifter near the middle than near the sides, and swifter above mid-

depth than below. At bends the transportation and deposition of gold become extremely complicated. Velocities within the stream change so that the greatest velocity is near the outer or concave bank (see figure).

Next, examine the stream bank for gold between the high water mark and the water level. Material in narrow cracks and crevices should be removed with the crevicing tool and panned. Material from the

## WHERE TO SELL GOLD

In general there are two legal places to sell gold: to the U. S. Mint, and to authorized independent buyers.

The U. S. Mint will accept shipments of five troy ounces or more, if accompanied by a notarized affidavit (obtain it from the mint); for smaller shipments (they accept no less than one ounce), the affidavit need not be notarized. The Mint will pay the legally authorized price for gold. Certain charges are made for melting and refining. As gold is never 100 percent pure (expressed as 1000 fine), the amount paid will also depend upon the fineness—that is, upon the purity of the gold. Gold—even gold dust—is commonly alloyed with other metals, such as silver, lead, or zinc, which reduce its fineness. The mint will pay only for the silver content, not for other metals.

The price of gold on July 13, 1960 per ounce was \$35.00.

Shipments to the mint may be made by mail; it is wise to insure the package.

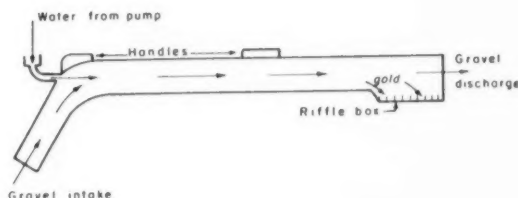
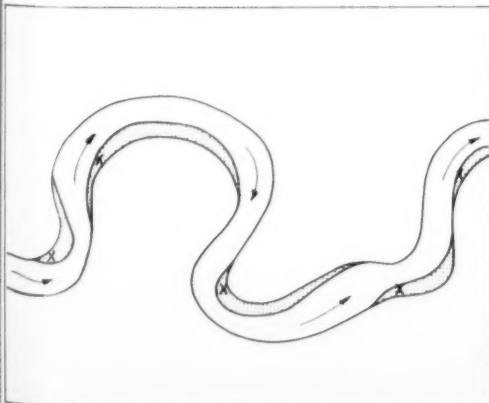
Gold may also be sold to smelting companies, banks and certain authorized individuals. They will set their own price on the gold. Inasmuch as they act as wholesalers, the price is less than that paid by the mint, but they will purchase lots that weigh less than one ounce troy. (From "Diving and Digging for Gold" by Sarah Ann Davis.)

downstream side of half-buried obstructions also should be examined. In addition, fine roots, moss or other vegetal material near the water should be examined as they will commonly trap fine particles of gold. If gold or "colors" are found in the pan, that area of the stream is a good place to prospect further.

Initial underwater exploration in the stream should be done with the snorkel. This avoids the large amount of work involved in carrying and setting up mining equipment in case the stream proves to be unfavorable. The initial underwater trip is to determine the configuration, location of natural gold traps, and the nature of currents. Deep narrow crevices and cracks, especially those that occur in steeply dipping rocks whose strike or trend is perpendicular to the stream flow, are particularly favorable for the occurrence of gold. A series of parallel deep narrow cracks are especially good as they form natural riffles. Such traps are most likely to be found in gneiss and heavily jointed granitic and volcanic rocks. In some cases long trough-like crevices that are parallel to the stream flow act as natural sluice boxes. Natural irregularities at the bottom act as riffles or pockets to catch the gold. Sometimes deep potholes are good gold traps. Potholes have been scoured out in the bedrock by gravels being spun around by eddying currents. They are most common below falls and rapids and most abundant in crystalline limestone and granitic rocks. However, the scouring action also may tend to grind up and dissipate the gold. The downstream side of large boulders or any type of obstruction may be favorable sites since the eddying motion on the downstream side facilitates the deposition of gold.

The gold is almost always con-

(Continued on Page 26)



Above—Sectional view of underwater gold recovery device or jet dredge. There are many variations of the dredge but basically they all operate on the above principle.

Left—Diagram of the course of a river showing currents and bars, where gold particles are most likely to become concentrated. Most of the gold bearing sand and gravel has been worked by the old-timers, but with their primitive methods, so there is still plenty for the gold diver.



# Parachuting for Gold!

by  
**DAVE  
BURT**



Above—Parachutist glides into a narrow gorge in the rugged California foothills to an inaccessible river area . . . sure gold country. Below—Gasoline, engine and other underwater mining equipment falls to the miner. Smaller chutes are used for the equipment.

**T**HE USE of parachutes for the delivery of personnel and cargo is opening up heretofore unexploited remote areas for underwater prospecting and mining.

This spring, in California's Kern River, ParaVentures, Inc., a Hollywood based commercial parachuting firm, demonstrated its para-scuba-gold diving techniques.

James C. Hall, mining engineer-geologist, veteran wilderness parachutist and former Mexican mine operator, is in charge of the field operations of ParaVentures, Inc.

On the Kern River operation, filmed for nationwide television newscast and theater release, two expert parachutists dropped into a small clearing in the narrow Kern River gorge. The complete equipment for an underwater gold mining operation and camp landed with pinpoint precision on various sizes of multi-colored cargo chutes. Powermite gold dredging equipment, sluice boxes, hose, diving gear, gasoline, and camp supplies were all safely landed by parachute within a few yards of the selected underwater mining site. The two parachuting gold divers wore heavily padded canvas jump suits and used steerable parachutes for the leap into rough terrain. On this type of operation, the jumps are normally made from 1500 feet altitude and the cargo is dropped from 150 feet. Single engine aircraft, such as the Cessna 180 are readily adaptable for this activity.

Para-delivery of equipment and supplies is a means of transportation that could be used much more by the mining industry. Complete mining outfits, as well as resupply, can often be para-dropped with a time saving of days or weeks and usually at less cost than the over-land methods. Heavy equipment that cannot be packed



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Loading the plane with all of the gear is a tremendous job. Each parachute can handle a specified amount of weight and care must be used in packaging for the drops.



Diving and mining gear is dropped within yards of the para-divers from low altitudes. All gear must be assembled and checked for damage before the plane returns to the base.

over mountain trails or through the jungle can be air dropped. However, the parachuting of personnel into remote areas is a job for highly trained specialists. ParaVentures, Inc. undertakes this type of jumping only when the particular situation indicates this more rapid, though at times hazardous, means of transportation. If a deadline is to be met, or a quick operation necessary to fit in with unusual weather conditions, a parachute jump may be the answer.

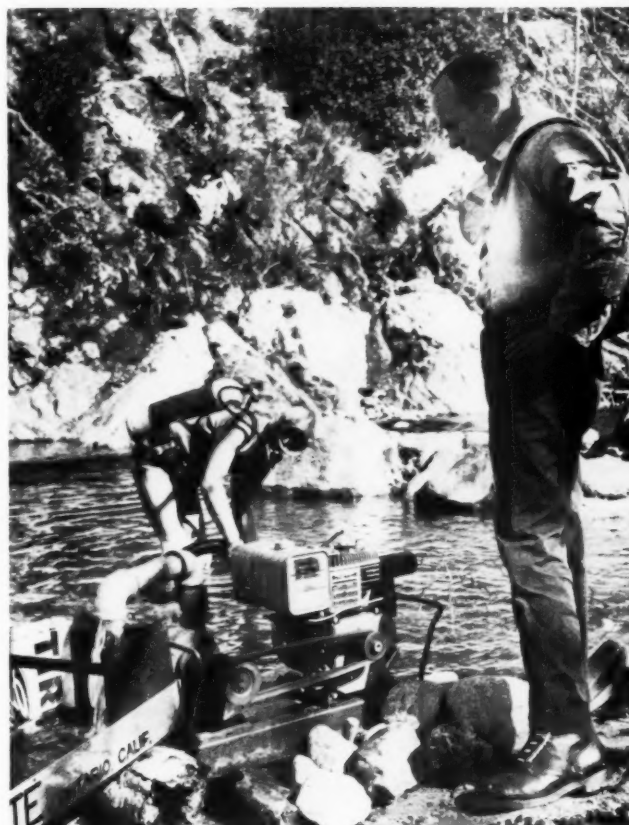
The question most often asked of a wilderness parachutist is, 'what's it like to jump?' The second question is, 'how do you get out?' ParaVentures' jumpers have used many means to get out. Sometimes the jump must be made quickly, but there is no great rush for the trip out. In this case, the men can walk out or be met by mules. Another time, ParaVentures' jumpers dropped an inflatable life raft into the Colorado River canyon and floated to civilization. In Alaska, a ParaVentures' jumper cleared a small pioneer airstrip for a bush plane to land. Helicopter landing sites can be cleared in the jungle. The equipment can be brought out by these same means. However, if the richness of the deposit warrants, it might be economically practical to abandon the equipment at the mining site.

Parachuting operations are particularly adaptable to remote areas of Latin American.

ParaVentures, Inc. has pioneered combinations of parachuting and scuba-diving operations. In 1959, this company tested the ultimate combination in para-scuba diving. The test jumper wore complete scuba diving equipment consisting of twin air tanks, Waterlung regulator, wet suit, weight belt, face plate, fins, snorkel and accessories. All gear was in the diving position during the exit from the aircraft, 2000 feet above the Catalina Channel. A steerable main parachute and a reserve chute were carried in two chest packs. Upon touching the water, the para-scuba diver releases all parachute gear and immediately descends. Para-scuba diving has applications for tactical military use, rescue and sport.

In television film production, as well as non-filmed operations in Mexico, ParaVentures, Inc. has combined parachuting and diving activities. Diving gear has been dropped by cargo chute into jungles, mountain canyons, and the ocean. The parachuting divers recovered a stone idol in an underground pool, dived for gold in a wild mountain river and attached a propeller to a vessel disabled far at sea.

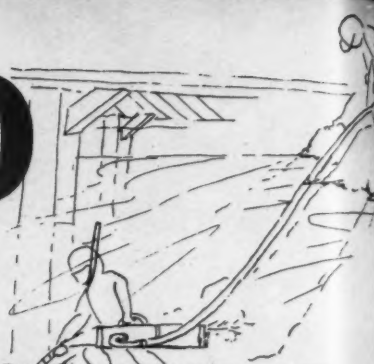
ParaVentures, Inc. engages in many sport and commercial parachuting activities including the specialized instruction in advanced parachuting techniques, parachuting for exhibitions, and motion pictures, equipment development and sales, and remote area operations. But combining parachuting and skin diving techniques for commercial use and sport will always play a prominent part in the activities of ParaVentures, Inc. . . .



Dredge in operation and the mining started . . . in virgin territory, never before touched, mined or seen by humans . . . the diver keeps the hose in the water to maintain prime in the pump and then into deeper water and the gold.



Panning the results of the first riffle box shows good color and the miners have "dropped-in" on the perfect location. If it pays good enough, they may leave the gear there and not worry about carrying it out when they leave.



# GOLD

## AND WHERE TO FIND IT

Illustrations from "Diving and Digging For Gold."

By CONNIE JOHNSON

Skin divers are entering a six billion dollar industry as they don their gear to search river bottoms for the glittering glimmer of gold.

Gold production in the United States from 1792-1944 has a total value of \$6,295,962,000 and nearly 80 percent of this has been recovered since 1873 (the California gold rush of 1849 accounts for only about one-fifth of this total).

In 1941 the gold output was valued at nearly \$170 million, but with the outbreak of World War II the government virtually closed down gold mining as a non-essential industry. Today mining of gold is slowly recovering.

The modern day diver clad in scuba equipment is not the originator of gold diving. Two thousand years ago men probed rivers sans equipment for the glistening metal. After the development of deep sea rigs, divers operating from dredges worked in gold bearing rivers. However, the development of portable and inexpensive equipment has led scores of skin divers to the banks of the California Mother Lode area to retrace the 49'ers footsteps underwater for gold lodged under rocks and in crevices.

The leading gold mining states are California, South Dakota and Nevada in that order. The best sites for a diver to pitch camp are areas of past gold rushes.

Gold was discovered on the eastern seaboard in North Carolina in 1799 and northern Georgia in 1828.

The discovery of gold in California led to gold rushes in Nevada, Colorado, Idaho, Montana, South Dakota and Canada's Yukon.

In 1859 the Carson River in Gold Canyon near Nevada City yielded the precious metal to prospectors. The next year the Washoe gold rush at Virginia City was set off when Henry Comstock discovered a solid ledge of gold four feet wide.

A Georgia miner with experience in California gold mining led a small party of Indians up the Arkansas River in the Pike's Peak area of Colorado into winter quarters at the junction of Cherry Creek and the South Platte River. Denver became the outfitting point for the Cherry Creek prospectors.

Thirty years later in 1893 the gold rush was repeated within sight of Pike's Peak at Cripple Creek. Silver had been found at Cripple Creek, but no gold until in the 1890's when a persistent prospector sank a shaft 48 feet into good ore.

Gold rushes hit Lewistown and Boise, Idaho, in the 1860's. Twenty years later a rich silver deposit was discovered near Coeur d'Alene.

Montana was also the site of a gold rush when in 1862

gold was discovered near Bannack, Yellowstone area. The gold declined by 1864, but silver and copper smelters were erected in Butte which became one of the greatest copper producing centers in the world.

The Black Hills of South Dakota saw prospectors in 1875-1876. General George Custer, charged with protecting the prospectors, met his end at the Little Big Horn River during this era.

The gold rushes moved to the Yukon in Canada in 1896 with the Klondike Stampede. The mass migration to the Yukon caused many cities to spring up overnight including the city of Dawson.

Previous gold finds in Canada were centered in British Columbia around the Fraser River in 1857 and the Cariboo gold rush of 1862 in northeastern Victoria, B. C.

Outside the United States major gold discoveries have been made in Australia, New Zealand and currently the greatest gold mining field in the world, Witwatersrand, South Africa. This area annually contributes more than half of the world's production. Directly or indirectly half of the population of the Union of South Africa is dependent upon the gold mining operations.

Major gold deposits in portions of California, Oregon and Nevada are around the Rogue River, near Medford, Oregon; Humboldt and Reese River, in northern Nevada and Carson, West Walker and East Walker Rivers on the Nevada-California border and in California's Mother Lode area. Rivers in California include the Smith, Klamath, Shasta, Scott, Salmon, Trinity, McCloud and Pitt Rivers in California near the Oregon border and Sacramento, Butte Creek, Feather, Yuba, Bear, American, Rubicon, Cosumnes, Mokelumne, Calaveras, Stanislaus, Tuolumne, Merced, Chowchilla, Fresno, San Joaquin, Kings, Kaweah, Tule, Kern and Owens Rivers.

Some gold even reaches the ocean. When the rush of the water from the river is stilled the gold is suddenly dropped. But the waves and currents continue to churn and sort it. It may gradually sink and at some distant time be lifted up again to form a pay streak along the ocean shore. Many such fossil beaches, complete with pay streaks, have been found. The beach gold is sometimes pushed by the currents to form a thin band along the shore. Most of these—they are found in Alaska and along the Oregon and California coasts—contain their gold in black sand streaks. The beach at Nome, Alaska, though only 200 feet wide, has yielded more than two million dollars in gold.

Gold fever has hit the western states again, only this time the prospector has added fins, masks and scuba equipment to his list of mining equipment.

# PROSPECTING

## *the hard way*

By LAURA LOUISE HALES



Gold miner using the underwater equipment in the shallow cracks and crevices of the bedrock stream. In the foreground are air pump and reservoir, and dredge pump. Portable Drill and Dredge Photo.

**D**ID YOU KNOW it's easier to go over a waterfall bottom first? I didn't, but learned so after trying it on my head.

I had been seeing too many gold pans showing rich hauls being made by other divers. Since the equipment to do so was already in my possession, I had a gnawing desire to set out and find my share.

The nearest place to go where there was talk of gold being found was Quartzville creek, a branch off the Middle Santiam river.

The sight of a couple of small, empty prospectors cabins, overgrown with moss and nearly obscured from view by wild blackberries and other Oregon foliage seemed to give me a 'this is it' feeling like the darned stuff was really close by.

We had a friend, Paul Riddle, going with us and while the men didn't seem so overly enthused, they seemed ready to enjoy a day of just piddling around.

I was dismayed when I saw the water. It was bubbling and frothing and really going by. It was suggested we return home and wait a couple of months. This idea was received worse than my impression of the water... there wouldn't be time to go anywhere else and it would probably be a month before I was able to go again.

Standing next to the water I changed my mind then changed it back again, two or three times. I was wishing grandma would come more often with her free baby-sitting so I wouldn't be so desperate.

About thirty feet up the creek the water washed over the falls and roared in our ears. It quit foaming in front of us but flowed swiftly by and went over more falls about fifty feet farther down.

If I had to lead the way in I know I would have climbed back into the warm car and called it a day. However, Paul made it in first and he made it look easy. Still skeptical I grabbed my pail and plunged. The water was icy and I was amazed I

didn't freeze to death immediately. Those wet suits are fantastic.

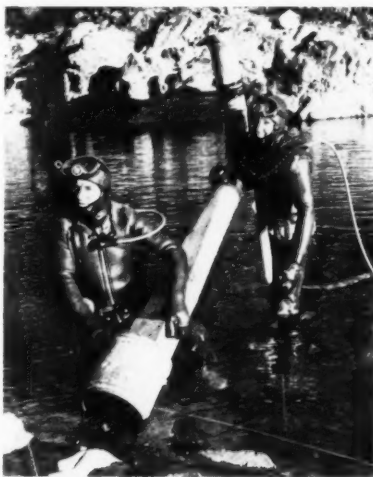
There was a spot where the water slowed considerably around a rock ledge where I headed. Swimming twenty-five feet is nothing to brag about but I felt mighty proud when I reached the other side.

I started to dig away through the bottom with my hands. The sand swirled up at the slightest touch. I pressed my bucket down as far as I could for a sample and before it would move half an inch the whole handful swirled away.

The water had looked fairly quiet here and was only knee deep. I was rapidly becoming thoroughly disappointed but thought I would try once more, willing now to settle for one pretty agate. Even the pebbles floated away before I could close my hand. I made up my mind if the water's that fast I didn't belong here and all of a sudden the other side looked awfully far away.

A frantic feeling washed over me momentarily and I reasoned to myself that one extra hard push would send me half way across and I ought to be able to make the other twelve feet or so.

Finding nothing to push against



Emptying the gold that has been trapped in the riffles of the dredge into a large can for later panning. Diver Robinson is wearing scuba while diver Koskevich wears a hookah. Underwater Enterprises Photo.

I made good through the side and found myself right in the middle of the hard pressing water. My bucket on the return trip was slowing me down too much. I dropped it and the water seemed to grab me. I thrust hard. My second kick threw a fin and the water had me. When I looked ahead I saw a huge boulder and other rock formations that seemed to be even with me in the water or would be when I got there.

I put my hands down to touch the boulder in the middle as soon as I could to try to keep from being drawn through with the water.

I felt the rock wet and smooth slipping beneath the tips of my fingers as the water kept forcing me on. By now I was desperately trying to catch my fingers on the rock with a hold that would stay me until I had my wits back again.

Scared, I had been, but not now. I was too busy grabbing, fumbling and fighting for a hold on that water polished rock.

All of a sudden the hole where the water flowed through was right beside me. I knew it was just a matter of seconds before I was swept around and pulled through too. I had a 'well this is it' feeling again. Then like a miracle my hands had found a hold.

So I didn't get washed over, "So, now what," I thought. There I was hanging on to about three inches of rock that protruded above the water level and the water was roaring down and foaming thickly on both sides.

I tried to think clearly but all I

(Continued on Page 26)



## HARD WAY (Cont. from Page 25)

could figure out was if I turned loose for any attempt what-so-ever, the water falls would have me.

They were not very high falls but I didn't like the idea anyway. To make matters worse if I did go over and didn't get out pronto I would be swept over those about sixty feet down and over those below that and all the others all the way down this MAD creek.

Feeling quite forsaken it was with unquestionable gratitude for company at this time that I saw Paul go sailing through the rapids beside me. He was yelling something but the rumbling of the water drowned out all other sounds. When I saw he wasn't all battered and bloody there was new hope within me and I wasn't so afraid anymore.

There was only one way out of this predicament, over the falls. I let go of my rock and let the water have me. I thought I'd swim as long as I could and remember how the break through was clear and smooth but the instant it passed the boulder it was nothing but bubbles. I felt myself going down and with no action on my behalf I was turned over sideways, twisted this way and that and somersaulted around until I was on my way up. I remember thinking how nice it was to have air going down with me and when I decided I needed some, discovered I had lost my mouthpiece and now had a mouthful of water with some of it starting to choke me.

I felt the water bouncing around my head and face and knew I was topside again but now I couldn't see. My mask had slipped down over my nose and mouth and I was coughing, sputtering and choking while I blindly pulled it free. I had irritated my eyes while trying to brush the water away and although I could breathe now, I still couldn't see. I started swimming hard, not sure where I was going but against the current that flowed to the next falls, all the while wondering where Paul was.

A hand pushed me and I knew which way to go. Shortly I could see clearly again and grabbed for the bank. Still sputtering I turned, afraid now Paul would go over those falls that were immediately below us. He missed his first grab in a place difficult to climb out. He reached for a new one and this time had it. He waited to get his breath back then made it out with no difficulty.

When I had calmed down I asked Paul what he was yelling about as he went over the falls. He said it didn't make any difference now but



Color-seeker starting down a shallow crevice with sniffer and small hand tools. "Sniffer" is a grease gun or meat baster used to vacuum the trapped flakes and small nuggets. Underwater Enterprises Photo.

he had said try it bottom first. I told him it wouldn't have made any difference then either, that in a dangerous situation like that I like to see where I'm going.

We recovered most of the lost equipment and retired to the quiet eddies of the lower falls for the rest of the day and our final effort of prospecting. The profits were nil... but the experience was invaluable and I have been happy to pass on our advice to you. Let our words ring in your ears when you next enter that white water for the color... gold!!!!

## PROSPECTING AND MINING

(Continued from Page 21)

concentrated near and at the bottom of such natural traps. It occurs as flat or rounded grains and flakes ranging from microscopic size to nuggets several inches across. The coarser gold usually is found at the greatest depths. Because many of the streams have been mined in past years and the gold usually was recovered by amalgamation with mercury, some of the gold found at the present time may have been partially amalgamated with mercury and be nearly white in color. Native mercury occasionally is found also at the bottoms of such streams. The gold is always associated with black sands that are composed chiefly of magnetite and smaller amounts of ilmenite, zircon, and garnet. Usually small amounts of pyrite or "fools' gold" are present in black sand. Small grayish-white grains and nuggets of platinum may be present but usually only in very small amounts. Also present in some of the stream beds are lead shot, old nails, small bits of scrap iron, and occasionally old coins, etc. The pres-

## GOLD DIVING BOOKS

"Diving and Digging for Gold" by Sarah Ann Davis, tells where to find, how to get and where to sell gold. The book was copyrighted in 1960 and can be purchased from Pages of History, P. O. Box 6, Sausalito, California, price seventy-five cents.

"Diving for Gold," contains 128 pages with over 100 pictures and maps with chapters on underwater prospecting, equipment, laws, where to go and processing the gold. Available at \$3.50 from Underwater Enterprises, 1317 20th Street, Sacramento 14, Calif.

"Underwater Prospecting Techniques" by Vaughn M. Greene, published in 1960, 1062 Sutter Street, Apartment 16, San Francisco, California.

"Map and Guide to Virginia City, Nevada, and Comstock Lode Area," a Pages of History publication, 56 pages, illustrated, map. Price \$1.00 from Box 6, Sausalito, California.

"Gold in Placer" by Jack Douglas. Published by author in 1948.

"Pay Dirt" on American Gold Rushes, by Glenn C. Quiett, published by D. Appelton-Century Co. 1936.

"History of American Mining" by Thomas A. Rickard, published by McGraw-Hill in 1932.

ence of metal should be carefully noted when prospecting. The gold-bearing black sands are near or at the bottom of the natural traps and usually are covered by accumulated sands, gravels, cobbles, boulders, and wood fragments. Sometimes the overburden itself will contain values. The particles of gold found in the streams originally came from veins, mineralized zones, and older placer deposits from which they were released by weathering and disintegration of the rock.

When prospecting a crevice underwater, the loose overburden can be partially removed by "fanning" it with cupped hands, and the heavier gold-bearing black sands at the bottom can be removed with the crevicing tool. The gold sniffer is especially valuable here. Efforts should be made to determine the exact spot for mining operations. There is no magic formula to determine the presence of gold. The finding of gold is partly luck and partly intelligent prospecting and painstaking observation. A knowledge of the gold-bearing regions is extremely important.



# A NEW HAZARD

DIVING WITH a mask, snorkel, and flippers has always been considered a safe procedure. The diver is not dependent upon mechanical devices and is limited only by his own physiological capacities. He takes a full breath of air and dives to enjoy the depths and the scenery. When he feels a certain discomfort which he knows as an urge to breathe, he comes up again. Or does he?

The point at which an individual experiences the desire to breathe again, that is, can no longer suspend his respiration, is known as "the breaking point." Drs. Fenn, Rahn, and others at the University of Rochester School of Medicine, Rochester, N. Y., have investigated factors which contribute to arriving at this point. Under most conditions which the diver meets he will want to come to the surface again when the carbon dioxide ( $\text{CO}_2$ ) concentration in the blood increases to a certain value. There are some special circumstances when the urge is dictated by lowering of the oxygen ( $\text{O}_2$ ) concentration in the blood, and there is a zone where both factors add together to tell the diver to come up for air.

Until recently we thought that this warning signal was quite constant from person to person. We know that there are some illnesses in which these principles do not apply, but they would not be met by a healthy diver. Now there are hints that we may be wrong. Let me cite several examples.

Recently it was reported from a university that a sophomore was drowned in the school's pool. This student had borrowed a pair of flippers from his roommate, and it was known that he wished to swim two laps of the pool underwater, 150 feet. He was a fairly good swimmer, but was pulled from the pool by the swimming coach and several other students who were also swimming at the time. Prolonged attempts to revive him failed.

Does this next incident, which is very well documented, sound familiar? An excellent swimmer made a dollar bet that he could swim two laps of a pool underwater without coming up for air, a distance of 200 feet. Before beginning, he breathed deeply for about two minutes (hyperventilation)

because he knew he could hold his breath longer if he reduced his body stores of  $\text{CO}_2$ . In this manner, the  $\text{CO}_2$  which is produced in the tissues would take longer to increase to the concentration at which the breaking point would be reached. He negotiated the first 100 feet with little distress, turned, and started back. As the urge to breathe increased, he made continuous swallowing movements, a trick familiar to all divers. Forty feet from his goal he passed a ladder on the side of the pool, and that is the last thing he recalled seeing.

His friends standing by the side of the pool noticed nothing unusual and reported that the swimmer continued to the end of the pool with the same stroke and with the same rhythm he had used throughout the distance. He surfaced as soon as he reached the goal. He won his dollar and was alive to collect.

The swimmer remembers regaining consciousness and finding himself at the end of the pool. He noted that his forehead was slightly sore and presumed that he must have hit himself. He was breathing somewhat hard, but climbed the ladder and lay down to rest. He noted that his heart beat was irregular but was unable to note the exact pattern. After ten minutes he was completely recovered; he was lucky.

The deaths of Jules Corman and José Ramahete at last summer's diving meet in the Mediterranean may have had their origin in this same phenomenon. Evidently, under certain psychological conditions a person is able to resist the urge to breathe and to go beyond the breaking point. When we are so foolish as to blind ourselves to nature's warning, we can expect trouble.

A likely explanation of the problem may be that the  $\text{CO}_2$  reaches a con-

centration in the blood where the subject no longer retains consciousness even though he may perform certain mechanical movements. Observers cannot tell the difference even though the swimmer has passed out. Of course, this train of events continues, and the swimmer will go deeper and deeper into his  $\text{CO}_2$  anesthesia until his muscles, including those which make him hold his breath, relax. At this point he will probably drown in the classical fashion. Everyone will write off the event simply as that, another drowning. We do not know how long it would take to pass from loss of consciousness to relaxation and the onset of drowning. We are not sure whether the swimmer would pass out from  $\text{CO}_2$  (hypercapnia), lack of  $\text{O}_2$  (hypoxia), or a combination. These factors remain to be investigated. However, it is quite likely that we must revise our estimates of the ability to disregard the urge to breathe when the diver is psychologically motivated to do so.

This hazard, which is probably not new, but which we must investigate would indicate that we cannot say that skin diving is so safe. As in all other phases of diving, we must train the pupil to pay attention to his instinctive urges. When you are tired, you should stop diving. When you are cold, you should surface and get warm. When you feel the urge to breathe, come up for air.

There is also a lesson which must be applied to competitive diving. It must be appreciated that underwater spearfishing tournaments depend to some extent upon the diver's ability to hold his breath for a little longer than may be wise. Certainly there should be no events where the prize depends solely on how far the skin diver can go or how long he can remain quietly submerged with a lung-full of air. Children should not be encouraged to see how long they can stay under compared to other kids.

I do not propose that we train prospective divers to scurry to the surface just as soon as they first feel a need to breathe. However, when the urge to breathe becomes moderately strong, the diver must respond to his built-in warning bell. »

By ALBERT B. CRAIG, JR., M.D.

Department of Physiology  
University of Rochester



## LONG BEACH NEPTUNES WIN NATIONAL CHAMPIONSHIPS

The Long Beach Neptunes, headed by individual National Champion Bob Manicki, scored their fourth consecutive 1960 victory to win the National Underwater Spearfishing Championships at Laguna Beach June 26.

Last year's National Champions, the Miami Skin Divers, were beaten almost as badly on the west coast as were the Neptunes on the east coast in the 1959 Nationals at Miami. The Neptunes "took" the Skin Divers by 27.3 pounds at Laguna.

Don DelMonico of the Miami Skin Divers did himself, his team, and all eastern divers justice by bringing 56.14 pounds of fish to the weighing station to take an individual second place award. DelMonico was the 1959 individual National Champion.

Hard-working teams from all parts and corners of the United States came to Laguna to make the 1960 Nationals the first truly representative National spearfishing event in the history of the sport. Teams from Washington state, Florida, Massachusetts, the San Diego Council, the Empire State Council, the Illinois Council, Connecticut Council, Oregon Council, Northeast Council, Mid Atlantic Council, Cen-Cal Council, Rhode Island Council, and two teams from the Los Angeles Council, dived their hearts out for five hours in an exceptionally "fishable" (clear water, lots of fish) Laguna Beach.

Four women's teams, two from the Los Angeles Council, one from the San Diego Council, and the 1959 women's National Champions, the Palm Beach Fin Divers from the Southeast Council dived a four-hour meet side by side with the men.

Baldwin, Manicki and Sharp pose with Perpetual Trophy and Miss Churchill.

By TERRY LENTZ

The West again came out on top with the Santa Monica Sea Lancers team of Lillian Kemble and Toby Schreiber taking the 1960 Women's National Spearfishing title.

Marjorie Williamson of the Long Beach Neptunes women's team is the new women's individual spearfishing champion. Miss Williamson, a fast-shooting diver that can show-up most men, beat-out the Sea Lancers' Toby Schreiber by three ounces.

The meet itself was run flawlessly by Los Angeles Competitive Spearfishing head John Geiszler and L.A. council chief Ron Merker and their associates.

The diving area was one and one-half miles long with submerged reefs running three hundred yards out from shore. Most diving was in and around the rock formations peculiar to the Laguna area, although Jack Reshatoff from the Cen-Cal Council found "sand-searching" profitable when he "nailed" a 32.12 pound Halibut that made the fatal error of entering the competition area.

Los Angeles teams and on-lookers alike were impressed with the energy devoted to pre-competition area scouting that the out-of-town teams displayed. Teams that have never entered a national event were in the water eight hours a day either "looking the area over" or shooting game outside the competitive area. The Illinois team, the only entrants from a fresh water area worked exceptionally

hard and placed a very laudable eighth among top-flight competition.

Competition began at 11:00 a.m. for both the men and women. The divers entered the water fifteen minutes prior to the "start" signal and lined themselves on their surf mattresses and paddleboards inside of two buoys that were anchored outside the surf.

The meet was basically a "go-north" or "go-south" meet. The divers that went north at the beginning of the meet dived, for the most part, north of the staging area the duration of the meet. Also, the divers that went south at the first of the meet, dived the entire competition on southern reefs.

There were a few exceptions. Bob Manicki and Don DelMonico fished both ends of the area and profited by their maneuvering. Several other divers moved the length of the area but did not fare as well as their fellow competitors.

Jay Riffe of the Sea Bears (L.A. team No. 2) struck a telling blow to paddleboard advocates. Riffe led the two dozen divers that chose to go north from the beginning of the meet until Riffe began diving, a distance of  $\frac{7}{8}$  miles.

As in the past, the Power Divers did a tremendous job of keeping the competitive area clear of boats that would endanger the lives of competitors.

The Long Beach Neptunes' team of Bob Manicki, Ray Sharp, and Jim Baldwin won the competition with 143.6 pounds of fish. Sharp and Baldwin backed Manicki up by taking fourth and fifth largest individual aggregates respectively.

NAT

TEAM

- 1-LO
- 2-MI
- 3-SE
- 4-EA
- 5-EM
- 6-WA
- 7-OR
- 8-IL
- 9-AS
- 10-RH
- 11-CO
- 12-MA
- 13-MI
- 14-NO

TEAM

- 1-SA
- 2-LO
- 3-PA
- 4-SE

AGGR

- 1-BU
- 2-DO
- 3-JA

LARG

- 1-JA
- 2-IL
- 3-HI

AGGR

- 1-MA
- 2-TO
- 3-LI

LARG

- 1-AL
- 2-MA
- 3-MA

Place

- 1 B
- 2 D
- 3 J
- 4 R
- 5 J
- 6 E
- 7 T
- 8 P
- 9 J
- 10 N
- 11 G
- 12 M
- 13 L
- 14 H
- 15 H
- 16 D
- 17 T
- 18 J
- 19 C
- 20 J
- 21 P
- 22 J
- 23 J
- 24 H
- 25 C
- 26 H
- 27 A
- 28 B
- 29 H
- 30 C
- 31 F
- 32 L
- 33 E
- 34 E
- 35 C
- 36 th

Women

- 1 M
- 2 T
- 3 I
- 4 M
- 5 R
- 6 A
- 7 C
- 8 C

## NATIONAL CHAMPIONSHIPS RESULTS

### TEAM PLACING — MEN

- 1—LONG BEACH NEPTUNES—143.6—(Greater Los Angeles Council #1)  
Bob Manicki, Ray Sharp, Jim Baldwin
- 2—MIAMI SKIN DIVERS—116.3—(Southeast Council)  
Paul Damman, Don DelMonico, Eugene Shinn
- 3—SEA BEARS—78.10—(Greater Los Angeles Council #2)  
Jay Riffe, Mike Vogel, Tony Smith
- 4—EAST BAY BARNACLES—69.12—(Cen-Cal Council)  
Howard Strawn, Jack Reshatoff, Harry Hague
- 5—EMPIRE STATE COUNCIL—55.4  
Luis Martinez, Herb Rakebrand, Tom Lindt
- 6—WASHINGTON COUNCIL—53.7  
Dale Dean, Gary Keffler, John Tallman
- 7—OREGON COUNCIL—47.10  
Jerome Lee Hiersche, Niel Dunmire, Cal Hall
- 8—ILLINOIS COUNCIL—27.6  
Lee Somers, Jack Springer, Pat Delaney
- 9—ASTRO DIVERS—26.1—(San Diego Council)  
Harry Rusigno, Bob Casebolt, Chuck Nicklin
- 10—RHODE ISLAND COUNCIL—17.1  
Edward Bradbury, John Jagschitz, Carl Lindh
- 11—CONNECTICUT COUNCIL—11.5  
Al Lespreance, Fred Lichatz, George Tamburri
- 12—MASSACHUSETTS COUNCIL—7.11  
Jim Gilman, Edward Logan, Harold McKay
- 13—MID-ATLANTIC COUNCIL—3.6  
Joseph Thompson, Charles Riegel, Eugene Cooper
- 14—NORTHEAST COUNCIL—(late)  
Roger Haynes, Gene Demski, Chester Hoynoski

### TEAM PLACING — WOMEN

- 1—SANTA MONICA SEA LANCERS—22.9—(Greater Los Angeles Council #2)  
Toby Schreiber, Lillian Kemble
- 2—LONG BEACH NEPTUNES—22—(Greater Los Angeles Council #1)  
Marcia Rowland, Marjorie Williamson
- 3—PALM BEACH FIN DIVERS—7.2—(Southeast Council)  
Alma Beck, Ruth Cook
- 4—SEA WITCHES—2.0—(San Diego Council)  
Carrol Gooding, Casebolt

### AGGREGATE—MEN

- 1—BOB MANICKI—Long Beach Neptunes—71.4
- 2—DON DEL MONICO—Miami Skin Divers—56.14
- 3—JACK RESHATOFF—East Bay Barnacles—41.9

### LARGEST FISH—MEN

- 1—JACK RESHATOFF—East Bay Barnacles—Halibut—32.12
- 2—JIM BALDWIN—Long Beach Neptunes—Sheepshead—8.11
- 3—HERB RAKEBRAND—Empire State Council—Calico Bass—7.11

### AGGREGATE—WOMEN

- 1—MARJORIE WILLIAMSON—Long Beach Neptunes—12.4
- 2—TOBY SCHREIBER—Santa Monica Sea Lancers—12.1
- 3—LILLIAN KEMBLE—Santa Monica Sea Lancers—10.8

### LARGEST FISH—WOMEN

- 1—ALMA BECK—Palm Beach Fin Divers—1.9
- 2—MARCIA ROWLAND—Long Beach Neptunes—1.5 & 1.3
- 3—MARJORIE WILLIAMSON—Long Beach Neptunes—1.5 & 1.2

### INDIVIDUAL PLACING

Place	Name	No. Fish	Agg. Wt. Pounds	Largest Fish Pounds
1	Bob Manicki, Los Angeles	49	71.4	5.4
2	Don DelMonico, Southeast	47	56.14	6.2
3	Jack Reshatoff, Cen-Cal	10	41.9	32.2
4	Ray Sharp, Los Angeles	19	38.7	7.1
5	Jim Baldwin, Los Angeles	19	33.11	8.11
6	Eugene Shinn, Southeast	31	30.7	2.9
7	Tony Smith, Los Angeles	23	29.15	2.9
8	Paul Damman, Southeast	22	28.14	6.7
9	Jay Riffe, Los Angeles	16	26.2	2.12
10	Niel Dunmire, Oregon	20	25.13	3.9
11	Gary Keffler, Washington	25	25.6	1.11
12	Mike Vogel, Los Angeles	28	22.9	2.12
13	Luis Martinez, Empire	22	19.12	1.4
14	Harry Hague, Cen-Cal	19	19.1	4.0
15	Herb Rakebrand, Empire	11	18.6	7.11
16	Dale Dean, Washington	20	17.11	1.4
17	Tom Lindt, Empire	20	17.2	1.7
18	Jerome Hiersche, Oregon	16	13.8	1.8
19	Chuck Nicklin, San Diego	12	13.4	2.15
20	Jack Springer, Illinois	13	12.9	1.8
21	Pat Delaney, Illinois	16	12.7	1.4
22	John Jagschitz, Rhode Island	10	10.10	1.3
23	John Tallman, Washington	13	10.2	1.0
24	Howard Strawn, Cen-Cal	6	9.2	3.3
25	Cal Hall, Oregon	10	8.5	1.2
26	Harold McKay, Massachusetts	7	7.11	3.2
27	Al Lespreance, Connecticut	4	6.14	3.3
28	Bob Casebolt, San Diego	4	6.12	1.3
29	Harry Rusigno, San Diego	7	6.1	1.0
30	Carl Lindh, Rhode Island	4	5.0	1.15
31	Fred Lichatz, Connecticut	5	4.7	1.2
32	Lee Somers, Illinois	4	2.6	1.0
33	Eugene Cooper, Mid-Atlantic	1	2.0	2.0
34	Edward Bradbury, Rhode Island	2	1.7	.13
35	Charles Riegel, Mid-Atlantic	1	1.6	1.6
through 42 were either late or did not weigh in.				
Women				
1	Marjorie Williamson, Los Angeles	17	12.4	1.5
2	Toby Schreiber, Los Angeles	21	12.1	1.5
3	Lillian Kemble, Los Angeles	18	10.8	1.1
4	Marcia Rowland, Los Angeles	15	9.12	1.5
5	Ruth Cook, Southeast	8	3.12	.11
6	Alma Beck, Southeast	6	3.6	1.9
7	Carrol Gooding, San Diego	3	2	.13
8	Casebolt			



Santa Monica Sea Lancers, first place in Women's division, Toby Schreiber and Lillian Kemble. Toby and Lillian had second and third largest aggregates to total over 22 pounds and defeat the defending champions, the Palm Beach Fin Divers, and other women's two-girl teams. Photo by E. M. Babs Jones, Official Photographer.



Second Place Men's team... Miami Skin Divers... Eugene Shinn, Don Del Monico and Paul Damman who were the 1959 champions. This team did surprisingly well in foreign waters and are true examples of champion underwater athletes.



Big fish getters for the day pose with Terry Lentz (left) after receiving their trophies. Left to right are Lentz, Jack Reshatoff of the Cen-Cal Council, Jim Baldwin of the Long Beach Neptunes and Herb Rakebrand of the Empire State Council.



Chiefs directing and observing at the National meet were: (l-r) Ron Marker, President of the Greater Los Angeles Council of Divers and Co-Chairman of Competitive Skin Diving for the Underwater Society of America; Carl Hauber, President of the Underwater Society of America; John Geisler, Co-Chairman of the Competitive Skin Diving Committee for the Society and Chairman of the G.I.A.C. Competitive Skin Diving Committee; and Jim Christiansen, Coach of the United States Team to the World Championships.



# Junior . . .



by JEAN DOWD

# FIN FANS

Do you suffer from "lungbusteritis?" Do you make the "cannonball" entry off a boat or pool side? If you live near Los Angeles, California, answers to these questions (plus all the important ones) may lie at the bottom of your nearest pool. For in Los Angeles, the Department of Parks and Recreation is offering one of the most fabulous junior diver training programs found anywhere in the world. And it's getting better every day. There's always something special going on where Junior Frogmen meet.

Training takes place in the best diving water—your local shark-proof pool—so for atmosphere, bring your own seaweed. If you're a beginner, you'll learn which masks and fins are

safe, yet inexpensive to buy. Which masks and snorkels are just plain "Mickey Mouse"? Are colored masks strictly for watching T.V. underwater? Are you really getting a kick out of your fins?

If you're 10 to 12, you'll be in training for a certificate in the Explorer Division. If you're 13 or 14, you'll work toward completion of requirements in the Ranger Division.

At 15, you're eligible for Mask and Fins Society. While you may join Mask and Fins as a beginner, you must meet certain qualifications to be initiated. Ceremonies are often held in a mysterious subterranean room. Ever meet a shark in the dark?

While you're in training there are

plenty of activities to make future ocean dives more pleasant and worthwhile. For instance, Lloyd Claus, instructor of a Frogman group in South Gate, helps Frogmen assemble necessary gear. The "Flipper Snappers" made their own weights and wet suits while in training. Beach dives and boat trips are now a regular occurrence with this advanced group.

The activities offered are determined by the interests of Junior Frogmen. At Point San Vicente, near Marineland, will be a Skin Diver's Shore Station. A two man team will help young divers to safely enjoy their sport in every way possible. A mobile unit will house all types of collecting equipment.

Some days will be designated as "Catch'n Cook." On the premise that what's sauce for the goose ISNT sauce for the sculpin, marine cooking classes will be held for potential young Sea Chefs. You'll learn how to properly clean and cook your fish and to prepare gourmet sauces as well.

Other days will be devoted to sand casting, marine biology, photography and shell collecting. Point San Vicente is just one of a chain of Shore Stations which will be available along the West Coast, later on.

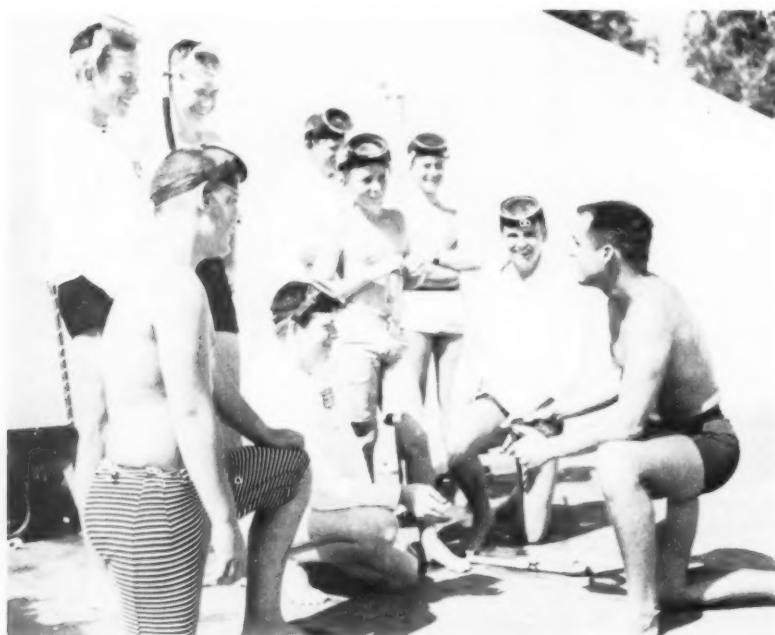
Large group events begin in August. There will be a trip with the Pacific Fleet Underwater Demolition Team at Coronado. The Navy Team will demonstrate the pick up and drop in fast boats, underwater explosions and plan a BIG surprise.

In order to participate you must be a certified Junior Frogman. Only about 160 boys and girls may attend, so it's wise to sign up early. A similar trip is anticipated, later on, with the Coast Guard.

All Frogmen training activities will culminate in the Pacific Coast Junior Frogmen—Mask and Fins Relays. Girls and boys, ages 10 through 17, will compete in every type of diving contest. Since the Frogman program has spread rapidly throughout California, this event will decide State Champions in such activities as free style with fins, individual medleys, tube paddle, underwater swimming, backwards swim and mask clearing. Trophies and ribbons will be presented by aquatic celebrities. It is hoped that there will be National Junior Frogmen Competitions in the near future.

The Junior Frogmen program is headed by Al Tillman of "Big Jade" fame. As Aquatic Specialist for the County of Los Angeles Department of Parks and Recreation, Al is al-

(Continued on Page 46)



Instructor Lloyd Claus talks to group of Junior Frogmen Tommy Carter, John Lantz, Richard Winnor (l-r front) and Dale Snyder, Ronald Garlosen, Darrel Anderson, Larry Clauss and David Semler.





# UNDERWATER SOCIETY OF AMERICA

**JOHN J. McANIFF**

Director of Publicity,  
Underwater Society of America  
P. O. Box 724, Station A  
Champaign, Illinois

Welcome to Houston and the First Annual Convention of the Underwater Society of America...

For the past several weeks firesides have hummed with activity as divers and underwater enthusiasts from all over the western hemisphere began their planning for the most historic event yet in the history of skin diving.

This first annual convention of the Underwater Society of America marks the first giant step forward in bringing together the many interests that exist in this new found world beneath the waves. Thousands of hours of voluntary work has been put forth in the last few years by many individuals, from the Board of Governors of the Society to those in each club and community, who have beat the drums of interest and aroused a spirit of "get the job done." The product of their devoted labor is representative organization which will not only aid in the discovery and exploration of the many mysteries of inner space, but also help to guide a fruitful enjoyment and use of our new treasury of knowledge.

The diver conventionaire will be received in the fine city of Houston and at the fabulous Shamrock Hilton Hotel with typical ten-gallon Texas hospitality. He will find a veritable whirlwind himself and every member of the family. Co-Chairmen of the convention, George Youmans and Hal Lattimore have literally spared no effort to see that everyone has a fine time. Some of the activities will include well-known TV and movie personalities as well as underwater fans from other prominent walks of life. The highlight of the entire three days will of course be a huge banquet, floor show and dance at the Shamrock Hilton on the night of August 20th. Music will be by the well-known Shep Fields and his Rippling Rhythm Orchestra.

In the business end of the Convention will of course be the primary interest and the reports of the various committees will be looked forward to by all who attend. The Board of Governors will no doubt go into its rugged schedule of nearly round the clock sessions which has typified each of its previous meetings. With an agenda as complete as possible the sincere efforts of each of the Board Members will be to accomplish as much as possible within the short amount of time available. Among their major chores will be the nomination and election of the Officers of the Society for the coming year and the choice of the location for the next two annual conventions. The bids for the National Competitions will also be on the agenda as will plans for all events proposed for the coming year.

The work load for the Board will be tremendous but I for one can ably testify, having been privileged to be a part of the efforts to formulate a national organization

from its very inception, that each and every Board Member is most deserving of your highest admiration and esteem for their unselfish devotion to furtherance of the aims of the Society. They most certainly exemplify the aforementioned "get the job done" spirit.

On this first birthday of the Underwater Society of America, I feel I voice the opinion of everyone who has had the privilege and pleasure of working with and for our first President Carl H. Hauber when I state that without his tremendous drive and vigour, without his unselfish personal sacrifice and devotion to duty, without his tactful diplomacy and exemplary leadership, our first year of infancy could never have been so successful. In the face of obstacles that might well have crushed a lesser man's incentive and drive, not the least of which has been the lack of adequate finances for the Society's efficient operation, Carl has pushed forward and led us to bigger and better accomplishments.

For your unstinted and invaluable service, your loyal, faithful and unselfish efforts; I say to you President Carl:

**"VERY WELL DONE"**

The First National Spearfishing Championships under the jurisdiction of the Underwater Society of America were a complete success and a tribute to the co-chairmen, John Geiszler and Ron Merker. The sincere congratulations of the Society are herewith tendered the U.S. National Championships—Long Beach Neptunes, Bob Manicki, Ray Sharp and Jim Baldwin.

The splendid cooperation of the Laguna Beach Junior Chamber of Commerce and the Competitive Skin Diving Committee of the Greater Los Angeles Council of Diving Clubs contributed immensely to the tremendous success of this competition and the Society's thank you to all who helped on this meet can never properly be put into words.

As this article goes to press our United States Team will be on its way to Europe to compete in the World Championships at Rome, Italy, August 1st and 2nd. The best wishes of our entire country go with them and we hope they may return as the new World Champions. It is important that one fact regarding this event be brought to light. It is a very expensive proposition to send a four man team to Europe for these competitions and an appeal for financial support has been made by the Chairman of the World Championship Finance Committee, Gene Vezzani. The returns from this appeal have been very disappointing at the date of this writing. Our latest estimates indicate about five to eight million fans of skin diving in the U.S. today and the target for the financing of this team has been set at \$5000.00. This would seem to indicate that if we are sincere in our support of our chosen avocation or hobby that it would take less than one tenth of a penny from each diver in the country to see that we are represented at this highest peak of achievement in the competitive skin diving field, yet the goal has not yet been met.

If you have not yet sent your contribution, however small, please mail it immediately to:

Mr. Eugene Vezzani, Chairman  
World Championship Finance Committee  
c/o The Underwater Society of America  
(address above)

Through the grapevine we have received word that other Councils are already active in Canada that have not yet been brought into the Society. Not having the necessary addresses we hope that some of our Canadian brethren will pass the word along that the Society looks forward to hearing from these Councils as soon as possible. Get on the bandwagon, neighbors!

Many inquiries are reaching the Society headquarters from clubs wishing to form Councils. Please direct all such letters to Miss Mel Lillis, Inter-Council Coordinator, Underwater Society of America at address above.

In a last minute release we have just received word that President Carl H. Hauber has been accorded a singular honor from the Atlantic Skin Diving Council, citing his "outstanding contribution to the art and science of Skin Diving," on a suitably inscribed scroll. This presentation is indicative of the admiration and respect which all of us have for this fine leader.

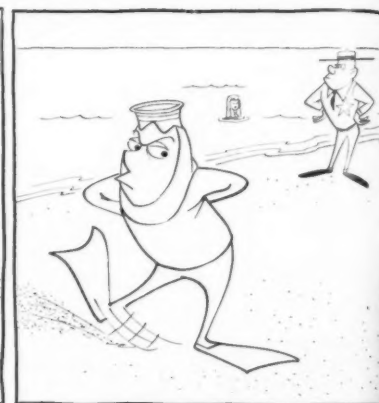
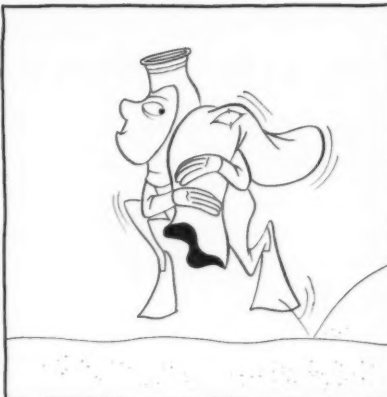
One parting thought; the divers of the world have more or less sanctioned and recognized the Divers Flag, yet too few actually use it. The Society would like to suggest that in the interest of safety, each Council take up a campaign to get its members to USE the Divers Flag. It will be a waste to actively promote the meaning of the flag if divers are operating without it. Remember:

**"NEVER UNDERESTIMATE SAFETY"**

UNDERWATER SOCIETY OF AMERICA P. O. Box 724, Sta. A, Champaign, Illinois	
Application  For  Membership	<b>1</b> ASSOCIATE MEMBERSHIP: \$1.00 (individual unattached divers). Name _____ Address _____
	<b>2</b> CLUB MEMBERSHIP: Name _____ Address _____ Council Affiliation (if any) _____ Please list the name and address of all members desiring to join the Society on a separate sheet and mail with this blank.

## McSPLASH

by Kohler



### International Underwater Spearfishing Association

## WORLD RECORDS

Due to a delay in the identification of *Seriola grandis*, the Yellowtail of Australian waters, the International Underwater Spearfishing Association is interrupting the alphabetical continuity of the series and is recognizing the claim of John Dudley on Black sea bass.—(*Stereolepis gigas*).

A large number of Black sea bass in excess of the weight of the claim listed were taken during the period which a claim was held as an I.U.S.A. World Record.

During the period from November 1956 to June 1960, a claim was on file for a 467 pound sea bass taken in Mexico. However, a photograph and the notarized signature of the weighmaster and captor were lacking, thus invalidating the claim for a World Record. In every instance where material has been incomplete the diver has been notified.

Listings of large sea bass taken at Cabo Frio have been received from Brazil, but in each case the record has been disclaimed because of insufficient identification.

The first claim for a World Record on Black sea bass was made by Jack

Prodanovich in 1951. Again the data was incomplete and on October 8, 1953, a record claim from Herb Sampson of Costa Mesa, California, was recognized by the I.U.S.A. The weight of the specimen was 172½ pounds and was taken at the Coronado Islands in Mexico.

On May 7, 1954, Jack Prodanovich of San Diego, California, completed his original claim on a Black sea bass weighing 310 pounds. This record lasted until August 7, 1954, when Wally Potts of the same city claimed a catch of 401½ lbs. All three of these fish were taken with a contact gun-powder head.

On June 30, 1956, Ron Church of San Diego, California, used a rubber powered mechanical spear to establish the new Black sea bass record at 464½ lbs. This specimen was taken at La Jolla, California. Four years later on May 30, 1960, the record was broken by John Dudley of Laguna Beach, California, U.S. with a 480 pounder taken at Scotchman's Cove.

John Dudley was skin diving at the Cove when he saw a large Black sea bass. Frantically he swam back to shore, got in his car and raced to La-



Weighing 480 pounds of record fish. Photographs by Brian McKay.

guna Beach to get his large spear and power head. Driving back to Scotchman's Cove some miles north of Laguna, he got in the water and swam out to the kelp beds. Here he checked his gear and found that the trigger mechanism had been lost somewhere enroute. Swimming back to shore he hastily made the necessary repairs and again swam out and searched the area for 45 minutes before he located the black. Not being prepared with a float, he had attached thirty feet of line to his fifteen foot leader and with this he managed to encircle enough kelp to slow down the rushes of his 480 pound juggernaut after he speared it.

John Dudley received honorable mention in 1954 as one of the top contenders in the United States for amateur underwater spearfishing Athlete of the Year. ➤

## RECORD

Jack Dudley and the new Black Sea Bass underwater spearfishing record fish, 480 total pounds, 84" long, 52" girth. Speared at Scotchman's Cove, Laguna Beach, California.



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# NATIONAL ASSOCIATION OF UNDERWATER INSTRUCTORS

(FORMERLY NATIONAL DIVING PATROL)

By NEAL HESS

Executive Secretary, NAUI, and Director, Instructor Certification Underwater Society of America.

## INSTRUCTORS TRAINING COURSE, HOUSTON, TEXAS

The greatest step forward in the sport of skin and scuba diving will occur this summer in Houston, Texas, Monday, August 22 through Friday, August 26. The National Association of Underwater Instructors will present the only national training of amateur skin and scuba diving instructors in North America. This primary national source of skin and scuba instructor training will give local leaders in diving instruction a basis upon which they may develop their own local certification of instructor programs. The NAUI hopes that eventually 20 to 30 local certification efforts may grow out of this National effort. To insure that training of a high calibre in practical instruction is given, Mr. Al Tillman, Director Underwater Activities, Los Angeles County Department of Parks and Recreation, and Mr. John C. Jones, Jr., Director Underwater Training, Broward County, Florida, Red Cross will be members of the NAUI instruction staff in Houston. These men pioneered the first two local certification programs in the United States.

The National Association of Underwater Instructors is a newly formed, non-profit organization sponsored by "Skin Diver Magazine" and the Un-

derwater Society of America. Application for sponsorship by the YMCA has been forwarded to Dr. Harold T. Friermood, Executive Secretary, National YMCA Physical Education Committee. Mr. Bernard E. Empleton and Mr. James E. Young, Members of the National YMCA Scuba Diving Committee, will be on the Board of Directors of the NAUI. The objective of the NAUI is to promote high standards of instruction in skin and scuba diving throughout North America. We hope scuba instructors may eventually be considered professional as are ski instructors today. The objective will be met via the one week instructor training and certification course and the monthly column by the NAUI Executive Secretary in "Skin Diver Magazine."

The objective of the NAUI and those of the YMCA, Underwater Society of America, local recreation departments and sheriff's offices will complement each other. The NAUI will give adequate training to individuals within the above organizations so that they may set up local certification efforts or pass requirements of existing certification programs. All instructors who pass the NAUI course will be certified by the National Asso-

ciation of Underwater Instructors to instruct skin and scuba diving. Individuals who are not located close to local certification efforts thereby will have a means of certification by a recognized national organization. The names of the instructors certified by the NAUI will be periodically listed in "Skin Diver Magazine."

The text for the Houston course will be "The Science of Skin and Scuba Diving," edited by Mr. Bernard Empleton and available from SDM, Underwater Bookshelf, Book No. 18 for \$4.95. The swimming and physical requirements as developed by the YMCA will be given each applicant in Houston. Mr. Al Tillman will test the applicants at the end of the course for practical knowledge of diving principles and ocean proficiency.

The instruction staff consists of men outstanding in the field of the subject they are instructing. A brief resume of each instructors experience is given in this issue. We are extremely fortunate to have Dr. Andreas B. Rechnitzer to teach marine biology and oceanography. He will show pictures at the graduation dinner of his oceanographic research in the bathyscaphe, "Trieste."

Each applicant need bring all his diving equipment with the exception of tanks which will be furnished the NAUI by Mr. George Youmans. Each instructor will be assigned a four-man team. These teams will go through the course together, sharing a four-man room at the Shamrock-Hilton for the low cost of \$3.50 each per night. Much of the value of the course will come from conversations with the other three men on the team.

The cost for the course is \$75.00 which includes the instruction, tanks, pool, boat trip and graduation dinner. Registration for the course may be made on the blank located below. Upon receipt of your application all details of team assignment, physical tests, medical examination form and general questionnaire will be sent to you.

Most of you will want to attend the Underwater Society of America convention the prior weekend and dive in the Gulf of Mexico the following weekend.

The Underwater Society of America, "Skin Diver Magazine" and I hope that each Underwater Society of America Council, YMCA, club and group associated with diving sends at least one representative to Houston to partake in this outstanding amateur skin and scuba instructor certification course. You have the rare opportunity to establish the skin and scuba instructor as a professional.

### National Association of Underwater Instructors

#### Instructor's Training Course

Sponsored by  
SKIN DIVER MAGAZINE  
AND  
UNDERWATER SOCIETY OF AMERICA

Name _____	Age _____	M - F _____
Address _____		
City _____	Zone _____	State _____
Strong Subject _____	Weak Subject _____	
Years as Instructor _____		
Deposit (\$40 Minimum) _____		

Send to and make checks payable to:  
**NATIONAL ASSOCIATION OF UNDERWATER INSTRUCTORS**  
P. O. Box 257—Sta. A, Palo Alto, California

# National Association of Underwater Instructors

## Instructor's Training Course

**Shamrock Hilton Hotel  
Houston, Texas**

**August 22 through  
August 26, 1960**

### Monday, August 22

- 8-9 a.m.—Introduction and N.A.U.I. Organization, Neal Hess.
- 9-10 a.m.—Teaching Techniques, Al Tillman.
- 10-12 noon—Medical Aspects, Capt. Behnke.
- 1-3 p.m.—Diving Physics, Cmdr. Bond.
- 3-5 p.m.—Pool Work, Tests and Skin Diving, Neal Hess.
- 7-9 p.m.—Medical Aspects, Capt. Behnke.

### Tuesday, August 23

- 8-10 a.m.—Medical Aspects, Capt. Behnke.
- 10-12 noon—Diving Physics, Cmdr. Bond.
- 1-3 p.m.—Lifesaving and Artificial Respiration, John Jones.
- 3-5 p.m.—Pool Work and Scuba Fundamentals, Neal Hess.
- 7-9 p.m.—Practice Teaching.

### Wednesday, August 24

- 8-10 a.m.—Legal Aspects, Hal Lattimore.
- 10-12 noon—Teaching Techniques, Al Tillman.
- 1-3 p.m.—Equipment.
- 3-5 p.m.—Advanced Pool Work, Neal Hess.
- 7-9 p.m.—Practice Teaching.

### Thursday, August 25

- 8-9 a.m.—Legal Aspects, Hal Lattimore.
- 9-11 a.m.—Marine Biology, Dr. Rehnitz.
- 11-12 noon—Search Patterns, Neal Hess.
- 1-3 p.m.—Oceanography, Dr. Rehnitz.
- 3-5 p.m.—Pool Work, Neal Hess.
- 7-9 p.m.—Written Tests, Al Tillman.

### Friday, August 26

- 8 a.m.-5 p.m.—Boat Trip and Ocean Tests, Al Tillman.
- 7-9 p.m.—Graduation Dinner and Movies, Dr. Rehnitz.

Standards as set by the YMCA and Underwater Society of America for Underwater Leadership and Training and Certification will be used for qualification and graduation from this course.



CAPT. A. R. BEHNKE



CMDR. G. F. BOND



DR. ANDREAS REHNITZER



NEAL HESS

# INSTRUCTOR STAFF

National Association of Underwater Instructors,  
Houston, Texas, August 22, 1960

Captain Albert R. Behnke, Jr.,  
U.S.N. (ret.)

### Medical Aspects of Diving

Captain Behnke received his M.D. from Stanford University in 1930. He holds a Master of Science degree from Yale University which was awarded him honorarily in 1942. He was a Research Fellow at Harvard University 1932-35, where he worked on problems dealing with exposure of the human body to high pressures. He is an Honorary Member of Harvard Academy of Medicine, Honorary Member of Harvey Society, Honorary Member of American Society of Anesthetists and a Fellow of the New York Academy of Sciences. He is a member of the American Society for Clinical Investigation, American Physiological Society and Sigma Chi. Dr. Behnke was instructor, U.S. Naval Medical School, 1937-42. He participated in the five months rescue and salvage operations incident to the U.S.S. Squalis disaster. During World War II, he carried on intensive investigation in the applied physiology of respiration under deep sea conditions, and has been connected with the investigation work at the Naval Medical Research Institute since its foundation. He initiated action which led to the foundation of the Naval Medical Research Center, Bethesda, Maryland. He served as Scientific Director of this institute from 1943 to 1950. He was Staff Medical Officer, Commander Submarine Forces, Atlantic Fleet during 1952.

Commander George F. Bond,  
Medical Corps, U.S.N.

### Physics of Diving

Commander Bond was Submarine Medical Officer, Submarine Base, Pearl Harbor, 1954-56, and Assistant in Charge, U.S. Naval Research Laboratory, U.S. Naval Submarine Base, New London, Connecticut until last year when he was promoted to Officer in Charge of the same installation. In addition, Commander Bond is in charge of the Submarine Escape Training Tank, U.S. Naval Submarine Base.

Commander Bond is a member of the American Medical Association, Qualified Deep Sea and Scuba Diver and a Qualified Submarine Medical Officer.

Dr. Andreas B. Rehnitz

### Marine Biology and Oceanography

Dr. Rehnitz is the Scientist in Charge of Project NEKTON, the continuing program of probing the ocean bottom in the Navy's most unique submersible, the bathyscaphe, "Trieste." He is a biological oceanographer with his Ph.D. from UCLA. He received the Distinguished Civilian Service Award from President Eisenhower, February, 1960 and is a life member of the National Geographic Society. He is a member of the National Academy of Science Panel on New Devices for Exploring the Ocean. He has written several papers on scientific diving and is a pioneer in the development of self-contained diving equipment for scientific research.

Mr. Al Tillman

### Training Techniques and Local Certification

Mr. Tillman is Director, Underwater Activities, Los Angeles County Department of Parks and Recreation. Mr. Tillman is responsible for the most advanced program for the certification of skin and scuba instructors. He pioneered the concepts of training qualified scuba divers to be instructors of the newborn sport as early as 1953. Since that time, he has trained over 300 qualified instructors and has edited the text "Underwater Recreation" published by Los Angeles County. He, more than anyone else, is responsible for the high level of instruction offered the new diver in Southern California.

Mr. Hal Lattimore Legal Aspects of Instruction and Salvage

Mr. Lattimore is a practicing lawyer in Fort Worth, Texas. He is legal council to the Underwater Society of America. He has been diving in the Gulf States for over 10 years.

Mr. John C. Jones, Jr.

### Lifesaving and Water Safety

Mr. Jones is Director, Underwater Training, Broward County, Florida, Red Cross. Mr. Jones pioneered the training of scuba instructors in Florida. His extensive development of skin, scuba and instructor's courses has been emulated throughout the United States. Many of the country's top instructors use lesson plans developed by Mr. Jones. He is responsible for the training given over 100 instructors in Florida.

Mr. Neal Hess Coordinator, Search Patterns and Pool Work

Mr. Hess is instruction editor, "Skin Diver Magazine," Director of Instructor Certification, Underwater Society of America, a Professional Engineer and graduate of the School of Business Administration, Harvard University. He has corresponded with over 500 instructors in the United States, Canada and Mexico. He is responsible for the listing of qualified instructors in "Skin Diver Magazine" and the formation of the National Association of Underwater Instructors.

# DRIFTWOOD

Please address all notes, letters and stuff to:  
 "DRIFTWOOD"  
 Skin Diver Magazine  
 Lynwood, California

*Hello, You.*

Since there's always a chance you might be a new reader and, therefore, wondering precisely what a Driftwood is, I'll advise the regulars to eyeball their morbid attention to the seething mess of neurotica featured below while I cue you as to the Driftwood Page's hideous reputation. We're something of a horde of social lepers. We think conventionality can be best endured in various degrees. We decry anything and anyone even faintly reeking of stuffed-shirtism. We tolerate advertisers because we know what it is to have to make a living, and we know they didn't deliberately expect to end up as rich as most of them are. Most of us deem organized Clubism as ridiculous. Some of us (me, especially) hold the fine, brave opinion that wives belong at home and not on diving trips. All in all, we are something of a dissenting, unorganized, confused, chaotic horde—few of whom would be truly at home anywhere but in a frantic argument. In fact, we consider it something of a skill to knock most of the pollyanna-ish, coy viewpoints currently held by the growing numbers of organizational-minded citizens who threaten to utterly stifle what little freedom and individuality still remains in the skin diving sport. We don't pretend to be particularly intelligent, charming, equitable or courteous—but neither are we guilty of the kind of fawning deceit which results from fear of criticism. You probably won't approve of us. You probably won't even be able to stand us. In any case, you're most welcome to pick up a few hard words and come after us with blood in your eye: If there's anybody we can't abide it's a bored opponent.

On the other hand, should you be selfishly interested in *The Individual* (beginning with yourself, naturally) and if you are, luckily, the kind of outcast who eats peanut butter with a spoon, loves to skin dive, distrusts important announcements from organized groups and harbors the shining conviction that there are many more major differences between men and women than the basic contours of their respective backsides—then, reader, you have been a chronic Driftwooder all these years, and you've reached home without realizing it until now.

And . . . this miserable jetty is all yours. While you're trying to figure out what you're likely to do with your own jetty, I'll go start the lousy pot of coffee we keep boiling . . .



Having just read one of your reader's letters, urging females to don ye olde skin diving suits and shake a sexy leg—with hopes of luring all those poor, unprotected men away from their favorite hobby, well—I beg to differ as I think it would be far more advantageous for American women to take a little more off instead of putting a little more on!

ELIZABETH ROBERTS  
 Greenwich, Connecticut

*Honey, I admire your attitude . . . among other things.*



*"Isn't that mask a little snug?"*

I'm writing to clear up what seems to be some mystery concerning 1959's *Miss International Beach Temptress*, Shirley Har—although I can't figure out how any mystery can exist since Shirley has lived in Seattle for almost four years now and is about as well-known as any "lovely" around, for obvious reasons (and for the less obvious ones that she is as sweet and modest as she is pretty.) Shirley has been featured on the Washington Alumni Magazine cover, has been a 1958 Seafair Princess, Viennese Ball Queen, Rose Queen, Scabbard and Blade Queen and a member of *Pi Kappa Phi Honorary*. The only reason I can think of why her name would not be listed in the University Directory is that she has been living at a nurses' dorm, since she's training at one of the hospitals, instead of on campus. An engagement picture (taken by that "unscrupulous photog"—my husband) recently appeared in the Seattle papers, announcing Shirley's engagement. Before she disappears entirely from the scene, however, we hope to get pictures of one last diving trip with her.

CAROL KORNBACHER  
 Seattle 5, Washington

*Engaged, eh? Well, that's bitter news for a lot of guys who probably were entertaining hopeful notions.*

While reading the April SDM, I came across the bit about underwater marathon records, and I must stand up for the people who like to set such records. I believe in them 100%. I recently set the Texas state record at 8-hours. I plan to go for the Big, in a year or two, if I can get the backing and the money.

TOMMY RIECKS  
 Harlingen, Texas

*Ecchh . . .*

Having just read the June issue of SDM and I wonder where you get such characters as that Mildred Clarke? I have been diving, for a living, for 13 years. I have worn a beard for about 5 years. I've never had any trouble with my mask sealing. I'm a Master Diver (305-feet) and a qualified instructor, and it grieves me to see a female diver criticize her betters—particularly when she doesn't even know what she's talking about. And, Carl, just between you and me, what is she doing in a club called the McClellan Aqua Knights? I always thought *Knights* were supposed to be men. I know you like to be fair and print the good with bad, but that's a bit absurd. If a good, experienced, qualified diver wrote you a critical letter, then it would be okay; but from so obvious a rank amateur—I'm almost ashamed of you.

ROBERT BRUCE DAVIDSON  
 Coral Gables, Florida

*Some days I can't please anybody.*



I've been reading your column for a couple of years now, and I've begun wondering why it is that you manage to sound so convincingly authoritative in regard to diving matters when I never see your name mentioned in any of the important skin diving or spearfishing events. Can it be that you simply are above participating in planned events which topnotch divers consider good enough to give their all for—or is it that you really do not dive and are just keeping up a good line of malarky? Having cornered you, this ought to be interesting to see what kind of imbecilic excuse you offer.

JANE BLAIR  
Clear Lake, California

*Listen, sister, only last week I went wading clear up to my waist and stepped on a vicious sand-dollar.*

We, here at the International Diving and Broad Jumping Corporation, have selected your column to be the one to introduce some new products we are importing into the country. To wit: *The Kamikazi Regulator*, made from the finest bamboo and rice paper especially for those who wish to establish records. When used with enough weight, this unit guarantees a depth record. Depth of dive is controlled only by depth of water. *The Little David Underwater Slingshot*, simplicity itself, foolproof trophy-taker and contest winner. When used with nuclear warhead it positively eliminates all competition. An order for either item makes the buyer eligible for the windshield decal and matching license plate which read: "I Belong." We are also doing the advertising for a national brewery who wants to photograph a skin diver in a tank of their suds to show the clarity and purity of their product. Unfortunately, all the divers we have retained to date keep turning their snorkels down—and it just doesn't look right. Any suggestions?

AL RAYMOND, JR.  
East Norwalk, Connecticut

*Yeh, you get together with R. C. Conklin, of Venice, California. You guys are blood brothers and don't know it.*

## UNSUNG HEROS OF

## DIVING HISTORY

Scattered here and there throughout the dramatic pages of *Diving History* are numerous, lurid personalities whose important contributions to the sport have sadly gone unnoticed and unlauded. Here, then, for the first time, is recognition presented to these intrepid pioneers for having widened (if not actually impaired) the scope of the skin diving sport as we know it today. . . .

#3



X. FREEMAN DREET . . . valiantly insured the future solidarity of diving clubs everywhere with his martyred stand in favor of increasing club dues regularly on a bi-weekly basis. Despite cruel resistance to his ideals, X. FREEMAN staunchly held his ground—right up to the day he was excommunicated from organized diving for life.

Even way down here in the blue and ever warm "Caribbee" we hear your cry, and we sit up intently and listen—hanging onto each and every raving word you utter. Not that we *agree* with everything you mumble, but we do admire and respect your individuality, Uncle Kohler.

K. D. ELDEMIRE & COMPANY  
6 Kings House Avenue  
Kingston 6, Jamaica,  
West Indies

*You don't have to agree, ever—it's enough for me just to know you're down there, hanging on my every word.*

Since many new readers have recently and unwittingly stumbled upon these drastic pages, how about restating your views on *Star-Mopism*? This would help to stir the old coals up a bit, and there are quite a number of people who would like to sink their spears into some of your Clearly Stated Views.

BILL COUEY  
1241 Darby Street  
Spring Valley, California

*Jezebel, what IS there to say except that Star Mops belong in the same category with pulling the wings off insects?*

You can always recognize the Club Diver for he's the one who struts with an "I am better than thou" attitude. He claims that the only really experienced diver is the joiner, the councilman, in short, the member of his clique. Further, he will claim that the only real enjoyment in diving is the mass murdering of fish; and the more he can slaughter, the higher he stands in the eyes of his fellow Club Members. This individual (*Careful there how you use that word 'individual', eh*) specializes in paperwork and free advice to others. He displays a hearty disdain for the lone diver who dislikes "togetherness" and dives with only one or two friends. Do you recognize the Type, Kohler? (*DO I!*) He is to be found everywhere and I note that he often writes to you, becoming very angry over your anti-club views. I say more power to you, Kohler. Just remember there are a great many of us "individual" free thinking divers" who think just as you do—and we say more diving and less clubs.

HAL WOLFE  
Chicago, Illinois

*What's the beef—some club turn down your bid for membership or something?*

Would any reader care to correspond with a British reader living on the Sussex coast? I'd particularly like to hear from dry-suit men about my own age (30), also those who are keen on photography, physical culture and basking in the sun! Only we don't get much of the latter over here! All your letters will be answered. Photographs will be appreciated.

BOX BM/JAGX  
Monomark House  
London, W.C.1. England

*Your written signature was illegible, Charlie.*

Well, I'll have to agree with you on one thing: It sure is a lot better when just a few guys go diving. You are not in everybody's way. Women *should* stay at home. They sure can be a pain. Well, I guess it's a little different if you're married (and I am far from that). But, then, I guess anyone can make a mistake once in their life.

MIKE COCHRAN  
1st Division Band  
Camp Pendleton, California

*One of these days, Mike . . .*



Thought your readers might get an idea for an inexpensive diving-raft from this picture. The inner-tube is a 10.00-24 with a 3/4 inch plywood top cut to a diameter of 3-feet. Most of the other facilities are visible: oar, anchor, speargun and Divers Flag. Underneath, fastened to the plywood, is a towel-rack for carrying safety lines, camera bubble, etc. Total cost: approximately \$15.00

D. E. Mc GARVEY  
Tallahassee, Florida

*Hey, I'd like one of these, myself!*

. . . and now that you've seen the high-type banalities we feature, new reader, you set yourself down with pen and paper, and join the mob. Be yourself. Say anything you would ordinarily hesitate saying in less understanding circles. If you happen to be a bit neurotic we'll love you all the more for it. Meet me here, next month?

KOHLER'S KOOKIE KOUNCIL

# News Current

NEWS FROM AROUND THE GLOBE COMPILED AND EDITED IN SKIN DIVER OFFICES.  
Local diving news from readers welcomed.

**ALASKA**—An on-the-spot testing by an under garment company is being conducted in Alaskan waters. **Henry Flesh III** of the **Allen-A Underwear Co.** left in mid-June for a trip to the **Yukon** on board a luxurious houseboat. **Flesh** is being accompanied by diver **Jack Bremer** who will test the firm's insulated underwear in the arctic waters. The expedition also hopes to turn up new facts on arctic plant life for the **University of Chicago** in its 4,000-mile trip up the **Yukon River** to the **Bering Sea**.

**IDAHO**—Logging has gone underwater in northern **Idaho**. **Robert Stillman** and **William Graham** have been salvaging 9,000 to 12,000 board feet of logs a day from the **St. Joe River**.

**HOLLYWOOD, CALIFORNIA**—One of the co-stars of the **Walt Disney** production of "**The Swiss Family Robinson**," **James MacArthur** added diving to his talents for the \$5,000,000 **Panavision-Technicolor** feature. **MacArthur** plays the eldest and most adventurous son of the shipwrecked family, who dives to help provide rations for the family's survival.

**DES MOINES, IOWA**—**John Gabriel** plans to salvage a **German** submarine sunk in 1943 in 87 feet of water in the **Gulf of Mexico** off the **Florida** coast. The **Iowan** estimates the salvage value at more than a half million dollars. The one thousand ton sub is 252 feet long and has quantities of mercury believed aboard for ballast. **Gabriel** became a diver in **World War II** and since has tried to recover the mercury from a sunken **German** submarine off **Block Island**, has worked on the **Pacific** coast on underwater inspections and coffer dam construction.

**MONTANA**—The **State Fish and Game Department** has encouraged diving in the state by declaring an open season on spearing rough fish. Starting May 22 divers have been able to spear three types of rough fish, suckers, squawfish and carp.

**SALT LAKE, UTAH**—A trio of **Navy** divers attached to the **Pacific Mine Force, Terminal Island, California**, have successfully completed a dangerous and grisly underwater operation for the **Air Force** in **Great Salt Lake**. **Navy** scuba divers, **Lt. jg. James B. Connors**, **D. C. Gullen** and **I. O. Henson** worked seven days carrying 100 pounds of weight to recover parts of the crashed **B-58** bomber and the bodies of two civilian crewmen who were aboard. The divers were the first **Navy** scuba divers ever to operate in **Great Salt Lake**. Other divers including civilians and the salvage team from the **12th Naval District** at **San Francisco** participated. The **Mine Forces** divers were used to disarm the aircraft's explosively charged ejection seats which had not been fired. In addition the divers recovered the bodies of the two crewmen and brought up most of the major components of the crashed aircraft.

**PORTERVILLE, CALIFORNIA**—Two divers recovered forty .45 caliber shells from the **Friant-Kern** canal upon request of the sheriff's department. **Dick Thieme** and **Emery Geiger** were not able to find the pistol however.

**LONG BEACH, CALIFORNIA**—One of the largest minesweeping exercises in the peacetime history of the **U.S. Navy** took place off **Long Beach** with 37 ships of the **U.S.** and **Canada** participating. Scuba divers assisted in the mine warfare training operation by neutralizing the mine contacts and assisting also in recovery. The twenty-nine divers, members of both **Canada** and **U.S.** explosive ordnance disposal teams, were in action throughout the week long training.

**DETROIT, MICHIGAN**—The **Army** is experimenting with the idea of moving its vehicles underwater if necessary to keep them on the go. In a demonstration at the **Detroit Arsenal**, a team of scuba divers, showed how this could be accomplished by driving trucks from one end of a 450 foot test pool to the other. The truck was equipped with a periscoped engine breather and exhaust pipes. The trip underwater was made with a lot of splash, but not a sputter.

**BRUNSWICK, GEORGIA**—Georgia's first shark attack occurred off **Jekyll Island**. **John Jones** was in chest deep water swimming (not skin diving) when the shark attacked. Doctors said extensive surgical repair of the left leg and foot apparently have saved them.

**CONEY ISLAND, NEW YORK**—A whale of a job was tackled by divers in the **Aquarium** as they transferred a 12 foot whale from one tank to a larger one. The divers put a stretcher on the whale, then several men drug her to the new pool. Prior to the move the whale was given a large dose of a tranquilizer. Before placed into her new home a shot of vitamins to perk up her appetite and a medical exam was given the mammal.

**TELEVISION**—**Van Williams** of "**Bourbon Street Beat**" was a skin diving instructor before his television career.

**PEARL HARBOR, HAWAII**—Skin divers were called to assist firemen in dousing a fire aboard the nuclear submarine **Sargo**. The fire broke out in the torpedo room which caused a break in a liquid oxygen line. One crewman was killed, but authorities said there was no danger of a nuclear explosion. Divers entered the hatch of the sub after it was partially submerged to extinguish the fire.

**JERSEY CITY, NEW JERSEY**—A giant replica of **Jules Verne's** classic "**20,000 Leagues Under the Sea**" created at a cost of more than \$225,000 is making a world premiere at **Palisades Amusement Park**. The attraction which is housed in a simulated whale, permits visitors to enter a dream-like under the ocean exhibit through the whale's mammoth mouth. Designed and built by **Emil Naets** in **Belgium**, the whale that houses this show is 100 feet long, 40 feet wide and 18 feet high. The interior has the format of an underwater cavern.

**SAN JOSE, CALIFORNIA**—Another **Boy Scout** diving group has been formed and given a charter by the **BSA**. **Explorer Scout Skin Diving Post 202** has 42 members.

**WINDSOR, CONNECTICUT**—A two week search by divers and police for **Thomas Perkins** ended when the "victim" turned up alive and a victim of amnesia. **Perkins** was reported drowned when a boat capsized in the **Connecticut River**, but later was found in a **New York** hospital.

**GLOUCESTER, MASSACHUSETTS**—The **United States Bureau of Commercial Fisheries** and **Woods Hole** are studying the commercial fishing gear and behavior of fish in the **Gloucester** vicinity with a small submarine life craft manned by two divers and an underwater television camera. The tests are being conducted by the **Coast Guard** with divers, **Michael Ruggiero** and **Peter Wilson**.

**PAWTUCKET, RHODE ISLAND**—Several items believed stolen in a recent housebreak were recovered from the **Blackstone River** by divers, **Pat Falco** and **Percy Kingsley**, after a 30 minute search.

**MARTINEZ, CALIFORNIA**—Youngsters from **Shadlands School** for cerebral palsy children got a front row seat as personnel of the **Concord Naval Ammunition Depot** put on a dress rehearsal for their **Armed Forces** day open house. The kids were excitedly thrilled with the divers who demonstrated how they disarm underwater mines.

**KENOSHA, WISCONSIN**—An **Italian** freighter, the **Marco Martinoli**, while leaving the **Kenosha** harbor caught its anchor on a submarine water main cutting off the entire city's water supply for 90 minutes. The city's water was restored and divers sent down to pinpoint the difficulty but because of deep muck and mud covering the pipe were unable to find the break. The anchor was at the end of a 900 foot chain and apparently lagged on the bottom catching the water main which is located 26 feet 7 inches beneath the water. The ship had dropped the bow anchors to turn and caught the pipe as the stern anchor was being raised.

**QUINCY, MASSACHUSETTS**—Skin divers of the **Braintree** fire department rescue recovery team located a stolen car during a training program at **Lyons quarry**.

**DALLAS, TEXAS**—Within a few minutes after the call for assistance in recovering a drowning victim, members of the **Farmers Branch Mud Ducks** arrived on the scene. A search was organized over a large area of **North Lake** as witnesses couldn't pinpoint the drowning area. **Joe Huddleston** and **Norman Robinson** recovered the victim's body in 20 feet of water.



The Minneapolis Police Department has established a skin diving unit which will operate on call from other duties. The officers will be available around the clock. In addition to the skin diving equipment, the police department has provided the unit with a boating rig which includes a Tee-Nee trailer, 40 HP Evinrude and 18-foot Alumacraft boat. The complete outfit is kept ready for emergency calls.

**DRACUT, MASSACHUSETTS**—More than 40 skin divers have assisted in the search of **Beaver Brook** for the missing arms, head and right leg of a woman's torso found there in late April. The intensive hunt of the water and surrounding area is the largest since the female torso was discovered. The search is hoped to turn up the missing parts for positive identification of the victim. Divers were from the **Lowell Skin Diving Club** and **Civil Defense**.

**MIAMI, FLORIDA**—Scores of spoons from an ancient vessel sunk near **Triumph** reef off **Elliott Key** have been recovered by divers **Arthur Davis** and **Harold Freitag**. The two men discovered the vessel believed of **Civil War** vintage in 20 feet of water. In addition to all the spoons they have surfaced with copper spikes, a brass wedge, musket ball, kegs, broken pottery and a corked bottle which yielded a foul tasting liquid.

**PALOS VERDES, CALIFORNIA**—Edward Jerez assisted his buddy diver **George Breland** to safety after **Breland** surfaced from a deep dive. During the rescue **Breland** was slammed against jutting rocks, but **Perez** managed to bring him to shore where he was taken to a hospital for emergency treatment and then to a Navy decompression chamber.

**KEANSBURG, NEW JERSEY**—The water soaked luggage of Dutch atomic scientist **Dr. Cornelius J. Bakker** who died in a plane crash in **Raritan Bay** was recovered by two divers. The luggage was impounded briefly by the **FBI** before being released.

**TURKEY**—A galley wreck some 3,300 year ago off **Turkey** has yielded remnants of a cargo of **Bronze Age** artifacts. The discovery climaxed a two-year search that was begun in **Bodrum** by **Peter Throckmorton**. Off **Cape Gelidonya** the group was about to abandon the expedition when a diver brought up two hunks of bronze with reports that he'd seen a lot of big flat pieces of metal shaped like oxhides. The wreck lay in 90 feet of water with dozens of the bronze ingots lying around. Between the ingots and under the sand and surrounding ledges they found bronze tools, axes, picks and spear points. Archaeologists at the **University of Pennsylvania** and **Princeton University** have authenticated the objects as characteristic of the **Bronze Age** which might place the wreck at least 800 years older than any wreck previously found.

**ESTELLINE, TEXAS**—Divers **Frank Parrish**, **Joe Raines Jr.** and **Nance Cregaer** explored a salt water sink hole that has been feeding salt into the **Red River**. The trio descended 174 feet into the sink hole in an attempt to find the bottom and take water samples at different depths. However, they were unable to descend deeper into the hole as the tunnel walls narrowed too much to allow further exploration.

**EGG HARBOR CITY, NEW JERSEY**—James Kendall has appealed to experienced divers in the **Egg Harbor** area to volunteer their services for a historic search of sunken wrecks. Kendall has been named to direct the state's diving operations from **Barneget Inlet** to **Cape May** in search of wrecks. He can be contacted at 114 23rd St. S., Brigantine.

**SACRAMENTO, CALIFORNIA**—A fisherman faces a charge of assault with a deadly weapon when he reportedly knifed a diver during an underwater fight in the **Consumnes River**. **Robert McMullen** was in satisfactory condition at a local hospital following the altercation. The fight started when **McMullen**, who had been granted permission to dive if he kept others off the property, told the fishermen to get off the property.

**SAN DIEGO, CALIFORNIA**—The Naval Repair Station and Naval Repair Facility at **San Diego** publicly demonstrated their underwater inspection technique for the first time in June. The Navy has used underwater television to inspect naval underwater installations for repair for more than a year. Underwater inspections previously were made by deep sea divers in cumbersome gear who had to report their findings. Now scuba divers carrying a television camera can broadcast a monitor picture topside for specialists to assess the damage without wetting a foot. Three civilian employees are associated with the project. They are **Harold Taylor**, **P. C. Crittenden** and **E. O. Arnold**. **Taylor** is credited with original application of the technique.

**GRAFTON, MASSACHUSETTS**—Six members of the **Aqua-Jacks** while on a picture taking expedition in **Lake Quinsigamond** discovered an old hand-drawn fire hose hitch in near perfect condition. The divers recovered the 500 pound antique and hope some historically minded group will be interested in adding it to their collection. Making the find were **Jack Davini**, **John Tasse**, **Michael DeSalvio**, **John Lewis**, **Paul Chalifoux** and **Bart Armendo**.

**PALATKA, FLORIDA**—Another prehistoric animal hnd has been made by divers in **Florida**. **John Taylor**, **Andrew Largacci**, **Roger** and **Lawrence Gunter** uncovered a huge jawbone and tusk in the **Oklawaha River**. The teeth measure eight inches in length and have roots that extend nine inches deep. The jawbone is to be sent to the **University of Florida** for examination.

**LOS ANGELES, CALIFORNIA**—The principal behind that wet or dry diving suit isn't as new as most of us believe. Back in the 1880's **Paul Boyton** demonstrated it as a lifesaving device. Once to demonstrate the suit, he jumped into the ocean 30 miles off shore from a passenger ship and made it to safety. He donned the watertight suit and swam the **English** channel, nonchalantly enjoying a cigar and his lunch. However, the suit never caught on as a lifesaving aid. The use of the suit was abandoned until the Navy frogmen picked up its use during the second world war. **Boyton** even forecast this. He attempted to attach a dummy torpedo to a **British** gunboat in **New York** harbor, but somehow missed and ended up near an **American** cutter. He tried again, but by this time the attention of all aboard was aroused. It was dismissed as a joke, but someone remembered when the military frogmen came into existence.

**BALBOA, CANAL ZONE**—A **Philadelphia** intern, **Dr. C. Edward Dawkins**, received cuts of the scalp, face and chest when he was attacked by a shark while diving at **Balboa**. Some 100 stitches were taken to close the wounds. The diver was surfacing when the shark attacked but he managed to climb aboard a skiff before the shark could strike again.

**MEDITERRANEAN SEA**—**Dr. Immanuel Ben-Dor** of the school of theology at **Emory University** will go on his 17th expedition to **Bible** lands only this will be his first trip as part of a diving group. **Dr. Ben-Dor** will accompany **Edwin Link** aboard the "Sea Diver" on an underwater archaeological hunt of the area around **Caesarea**.

**SHEBOYGAN, WISCONSIN**—**Russell Boldt** and **Allen Hoftiezer** recovered a Nazi swastika flag from **Sheboygan Falls Quarry**. The flag was wrapped in a plastic bag, sealed in a coffee jar, wrapped in a March 27, 1960, paper and padlocked in a wooden box weighted with stone. The divers were curious why the flag was there.

**CALIFORNIA**—**Dr. Bruce Halstead**, a diving research scientist, has derived a poison called a hallucinogen from a type of fish. The nerve drug is so potent that the smallest dose brings on an overpowering depression and feeling of imminent death. A victim, positive he is about to die, goes into a coma for about 12 hours. After the depression has gone, awesome memories continue to haunt the victim.

**KEY LARGO, FLORIDA**—A living coral reef underwater garden has been dedicated as a state park. The reef covers an area twenty-one and a half miles long and three and a half miles wide, three miles off **Key Largo**. The **Key Largo Coral Reef Preserve** is the country's first undersea state park and is under the jurisdiction of the **Florida Board of Parks and Historic Memorials**. Glass bottom boats will carry visitors to the underwater park.

**INDIA**—Pearl fishing operations off the **Tuticorin** coast of **India** has yielded more than 15,000,000 oysters this year. Overcrowded oyster beds are hampering the growth of pearls.

**GROTON, CONNECTICUT**—The commanding officer of the submarine base advised skin divers that the **Momsen** lung was a potential killer if used in diving. The use of the lung can cause death from lack of oxygen, carbon dioxide poisoning and the base has urged owners to destroy the lungs or turn them back in to the base.





Louisiana divers fattening Warsaw Grouper for tournament. (Photo by Roland Riviere)

## NEW ORLEANS GRAND ISLE

By PUBLICITY COMMITTEE

Louis Cuccia  
Charlie Porreto  
Marcie Alba

LOUISIANA is more than a geographical area on a map of the United States. It is a way of living a gentle gracious, unhurried way that often seems unreal to visitors from other sections of the country. Nestled at the foot of the sprawling, romantic Mississippi River, Louisiana offers the vacationist rare scenic beauty, interesting folklore and a year round calendar of entertainment that leaves little to be desired, a combination of Old World Charm, cosmopolitan atmosphere, and modern up to date living.

Divers that will take part in the New Orleans Grand Isle Scuba Divers International Tournament at Grand Isle, La. on August 15, 16 and 17 will have a chance to visit our State and the fun loving city of New Orleans. Contradicting the traditionally lazy way of the South, you will find a spark in the skin and scuba divers of this area reminiscent of early Cousteau days. Good fishing is a year round attraction which contributes to the spark and the spectacular offshore spearfishing offered to the skin diver cannot be duplicated anywhere in the entire world.

Tourists have always connected New Orleans and Dixieland Jazz, and well they might. The notorious night-spots of long ago which lined Basin Street in New Orleans were the melting pots for the many ingredients which make up true jazz. Today veteran jazzmen are still blowing hot licks in Jazz spots along Bourbon Street in the tantalizing French Quarter. You will find Beatniks, Debutantes, Convention visitors and movie stars rubbing shoulders and

tapping feet to the beat of music issuing from night clubs and speak-easy bars which line the Quarter. Food and New Orleans are often mentioned together, but only when unusually good food is discussed. Royal Street and the world's widest street, interesting Canal Street are the antique and fashion centers of the citizens and visitors from throughout the South.

Of course you divers and your families who will be vacationing here for the New Orleans Grand Isle Scuba Divers International Tournament want to know something about the trip from New Orleans to Grand Isle. You will leave the City, probably by way of our multimillion dollar expressway and cross the muddy Mississippi on one of two bridges which span the whirling waters. Once you are across, you find that either highway on the west side of the river will soon join and tie into roads which travel along the quaint winding bayous of Louisiana. These bayous form an intricate network of waterways through which flow millions of tons of shipping annually. Engineers describe the bayous as flood distributaries. Uniquely they flow in either direction depending upon the rise and fall of the tides. The bayou folk are mostly "Creoles," proud white descendants of the French and Spanish Colonists. The country Creoles, often called "Cajuns" speak a Patois which is a curious combination of English, French and Indian with variations that include Spanish, German and Slavic influences. These people are mostly fishermen, trappers or farmers, depending upon the season.

Traveling on your way to Grand Isle, the towns of Paridis, des Allemandes and Raceland soon slip by. At Raceland you cross the Bayou Lafourche Bridge and turn left. Riding on down the bayou, you see huge White Shrimp luggers of different types, which hum with workers repairing nets, painting and

all that goes with making a boat "Ship Shape" in preparation for the long voyage out to sea in search of the pink delicacies which are in demand throughout the country. Soon refinery tanks from the Sugar Plant loom huge along the roadside. The plantation type work houses for the crews seem cool and inviting in the peaceful shade of hundred year old Oaks bearded with Spanish Moss. On you go, through Lockport, and Larose and ramble southwest to Cut Off, Galliano and Golden Meadow. The last three towns mentioned are the heart of Louisiana's Shrimping Industry. The only real civilization between Golden Meadow and Grand Isle is Leevill. This sprawling community is made up of docks and bases for the largest offshore oil operations in the world. Here as you twist and turn on the road we find oil platforms dotting the land on both the right and left. Finally you cross the narrow bridge connecting Grand Isle to the mainland, across Caminada Pass. Looking southward we see the first offshore platforms of the day, situated six miles offshore in cool, clear Gulf Water.

Well, we made it to Grand Isle. Does it look to be a typical sandy summer resort and fishing town? It is really much more than that. Don't you know that you have just reached the stepping stone for the most fabulous spearfishing in the world?

Now you locate your accommodations. Of course you have taken care of that problem by writing to Mr. Ben Freeman, P.O. Box 264, Grand Isle, La., so you have no last minute worries about a place to stay on the Island. You will probably want to settle in your cabin and don shorts and T-shirts, the uniform of the day as much as anything else. Be as comfortable as you please. When anything is formal, as far as the divers go, it means that the men will be wearing long pants on the Island.

We have arranged for equipment repair facilities, equipment replacement and air that may be purchased on the Island. What about boats? Well, it's a long story, but briefly unless you get your reservations in for boat space, you may have to swim to the close rigs just three miles offshore. Advance registrations continue to come in and it looks as if first come first served will have to be the rule.

For additional information on the "Olympics" of the diving world, write to P.O. Box 137, New Orleans, La., in care of the N.O.G.I. Scuba Divers Internationals, Inc. We'll be looking forward to hearing from you. ➤

# Personality Spotlight

By CONNIE JOHNSON

## GEORGE YOUMANS

WITH the timeliness of the Underwater Society of America Convention in Houston this month, SDM has selected the one man holding the reins on this undertaking, George Youmans, as the Personality Spotlight.

George was appointed chairman of the convention by the Society to oversee the planning and many details connected with amassing the nation's divers at Houston for the annual meeting August 19-21.

The Texan began his diving in 1946 in Hawaii, Saipan and Guam. He donned scuba equipment ten years later with no instruction other than how to hold a mouthpiece and jump over the side of the boat. Remembering how many would-be divers became discouraged and panicky he said, "this was when my first interest was aroused in clubs and later prompted me to open the first skin and scuba diving school in Texas with George Herrera. Although some people are against organized clubs, councils, etc., from my own experience I find that only through the combined strength and knowledge of such organizations can anti-spearfishing laws and public opinion against the sport be controlled."

George has been twice elected president of the Houston Underwater Club and was elected vice-president of the Southwest Council of Skin Diving Clubs when it was organized and now serves as its president. He has been of great assistance to other Texas divers in forming their clubs including the Austin Underwater Society, East-Tex Divers of Tyler, Snorkel Snoopers of Groves, Hammerheads Inc. of Beaumont, Brazosport Underwater Club of Freeport, Hunter's Creek Underwater Club and Ellington Air Force Club. He also helped organize the first club on the east coast of Mexico, the Cluba Submarina of Vera Cruz.

Field representative for the Village Sporting Goods of Houston, he is forty years old and as he puts it "twelve years happily married to a blonde, no children."

For diving for the big fish around the Gulf oil rigs (including the monster pictured at right with George) he has recently added a 26 foot cruiser with twin engines to buzz back and forth from shore to the oil rigs. He won the 1958 trophy for largest fish (taken without scuba equipment,) a 30 lb. grouper and in 1959 won the coveted trophy for outstanding club participation.

An occasional commercial diving job comes his way and he lends willing assistance to authorities for the recovery of stolen articles and bodies of drownings.

Diving locations for the active diver include Florida, the Bahamas, California, Acapulco, Vera Cruz, Mexico, and in the Gulf of Mexico. "For coral beauty and abundant variety of marine life, I think Vera Cruz is the world's finest," he said. "And for brute strength and size nothing can compare with the jewfish, ling, barracuda, etc., found around the oil rigs in our own Gulf of Mexico." »»»



# THE BOTTOM SCRATCHERS

By HAROLD A. RILEY

OUR SPORT of skin diving came into its own within the last decade. Availability of commercially produced equipment and a snowballing interest in this newest adventure caused thousands of persons to join the swelling ranks of skin divers every year of the fifties.

Interests were being stirred in the forties, but activity was limited at that time. It began to pick up slightly toward the end of that era as commercial equipment began to appear on the shelves of sporting goods stores.

Many people today wrongly believe that the birth date of the sport lies somewhere in the war years. Actually, we have to go back another 10 years to find this date. A few rugged individuals scattered around the world were experimenting with skin diving throughout the 30's and perhaps some before that. True, Japan had her goggle divers from a much earlier date and natives of the south seas had been taking food and shells from the shallow lagoons for centuries. Caesar even experimented with shallow underwater exploration in his time. But the sport of skin diving as we know and enjoy it today was getting its start in the early thirties.

Glenn Orr, harbor department diver for the city of San Diego, is one of these rugged individuals. In 1930 Glenn was a diving partner on one of the early commercial abalone boats. The equipment used was the familiar hard hat diving dress complete with lead shoes, air hoses, telephones, etc. In a short time this partnership was dissolved but Glenn's enthusiasm for the underwater world was only beginning. Inasmuch as Glenn's partner owned all the diving equipment, Glenn was forced to employ other methods in order to pursue his new found world. He started skin diving on weekends and between jobs in shallow water, using swimming glasses. These glasses were only meant to keep salt water out of the eyes of surface swimmers and thus were inadequate for conditions found in diving.

Glenn soon interested Jack Prodanovich, Ben Stone and Jack Coberly to his newfound sport. Together they set about the task of improving their equipment. They had read stories of the south sea island pearl divers and knew that they used goggles over their eyes to improve underwater vision. With this thought in mind they undertook the task of duplicating the goggle, using auto

radiator hose for the goggle case and fitting round glass to each eye piece. These pieces of glass were usually girl's compact mirrors with the silver removed. The rubber cases were then contoured to fit the eye sockets of the individual face. With this very crude equipment these men spent every available bit of time exploring this new world under the surface of the sea. Their enthusiasm was constant and unabated so the natural thing happened, a club was formed, the first of its kind.

## The Club Picks a Name

Being a club meant having a name as well as requirements for governing control of membership and a guiding purpose. These points and others were outlined in their charter. One of the rituals required for club membership is wrestling a large horn shark to the surface and then to the beach. This must be done by hand without the aid of spear, knife, fins or any other mechanical means. This along with other diving requirements must be witnessed by one or more members. After beaching the shark the diver must remove the horns from the sharks back. One of the horns must be mounted and thereafter worn on the diver's bathing suit when he dives.

The fashion of men's bathing suits during the early days of skin diving included a thigh coin pocket. The shark horn was attached to this pocket by a small chain. As the diver swam along the ocean floor this horn would hang down and appear to scratch along the rock and sand bottom. One of the divers was impressed by this observation one day and made some remark to the others about it. They started calling one another **BOTTOM SCRATCHERS**. After some time the club made this name official.

By 1933 the club was fully organized and growing. The men not only had to be divers they had to be inventors and mechanics. They continued to improve their early equipment and to develop more. Wally Potts and Jack Prodanovich were improving fishing equipment by attaching power heads to pole spears and developing spear guns. Sometime in these early 30's Jack built a camera case that housed a cheap box camera and turned out very good pictures. Much of the equipment we use today is patterned after basic Bottom Scratcher designs.

## Club Gains World Wide Acclaim

So fascinating were the adventures of this club in their underwater wonderland that many articles began appearing in newspapers, magazines and books of national and world wide circulation. One of the earliest articles was written by the late Ernie Pyle who later was to endear himself to the free world as a front line war correspondent. The descriptions of these underwater adventures so captured the imagination of the youth throughout the world that in time scores of similar clubs began to form. Through the years the Bottom Scratchers club has and continues to receive correspondence from many of these clubs from all parts of the world.

Harold Riley (left), Council president, presents lifetime membership to Bo Smith, Bottom Scratcher president.





RILEY

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to Bo Smith,

ust 1960



Standing around display of early Bottom Scratcher designed and built equipment are (l-r) Wally Potts, Fred Brooks, Glenn Orr, Norm Platt, Wally Butcholz and Jack Prodanovich.

### Home Made Equipment Pays Off

As the club improved it's spearing equipment it became possible to spear very large fish in relatively deep water. The first fish taken over 100 pounds was a Gulf Grouper at La Jolla. Wally Potts landed this fish with a Prodanovich power head mounted on a spear pole. At the time neither the divers nor science were aware of the existence of Grouper as far north as La Jolla. Since that time many more have been taken, the largest being a Broom Tail Grouper over 200 pounds. Because of the scientific interest generated by this first at Scripps Institution at La Jolla, the Bottom Scratchers and all other clubs of the San Diego Council, have outlawed the spearing of same for all member divers.



Assortment of early goggle and face plate designs.

### World's First Diving Club Still Active

The years have been good to the Bottom Scratchers. The club never got large, 15 members in 27 years of full organization, but nearly all of these 15 people are still active divers as well as active Bottom Scratchers. There are two factors that contribute heavily to this success. One is the pledge these divers have sworn themselves to and actively uphold. It is as follows:

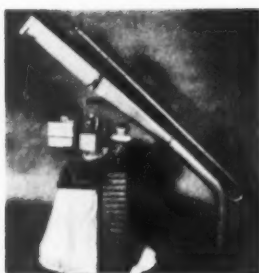
1. To be a good sportsman.
2. To strive in maintaining the good physical conditioning necessary for year round diving. (This was before exposure suits.)
3. To excel in all phases of diving and spearfishing.
4. To exercise best diving habits.
5. To do everything possible to prevent the waste of sea life.
6. To help others to appreciate the wonders of the sea.
7. To commit no act that will reflect adversely on the grand sport of skin diving.

The other is their membership requirements. They endeavor to gather only men of proven character for whom skin diving is a way of life, not merely a passing hobby. They very effectively accomplish this by screening applicants for as long as three years before granting membership.

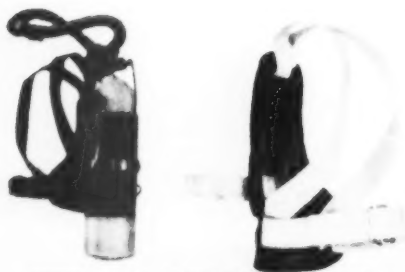
The success of this system becomes doubly obvious when looking over the roster of this club. It reads like a Who's Who of the diving world—Potts and Prodanovich of equipment design fame; Dr. Carl Hubbs, world renowned ichthyologist; Lamar Boran, leading underwater photographer. You see much of his work in such Hollywood productions as "Underwater" and "Old Man And The Sea" as well as the TV series "Sea Hunt." Then there is the never to be forgotten late, great Conrad Limbaugh.

On the evening of May 5, 1960 at a meeting hosted by the Tele-Fins in the telephone company club rooms at San Diego, the San Diego Council of Diving Clubs paid fitting tribute to this grand old club. The Council presented to the Bottom Scratchers an honorary lifetime membership. Harold Riley, council president, in his presentation address summed up the stature of the Bottom Scratchers very nicely with these few words. "Diving clubs the world over, whether they know it or not, attempt to pattern themselves after the Bottom Scratchers. The San Diego Council of Diving Clubs is privileged to be associated with this club in this manner."

# NEW PRODUCTS



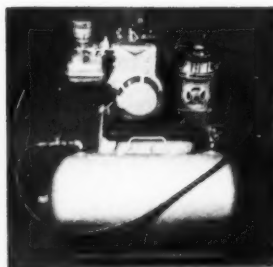
**HEAVY DUTY 4" Venturi dredge** capable of moving approximately 18 yards per hour and to a depth of 80 feet. Comes equipped with a 7 H.P. Kochler engine with a direct drive 1½" high pressure positive displacement pump with built-in adjustable relief valve, 50 feet of heavy duty high pressure hose and 6 feet of suction hose. Available from Portable Drill and Dredge or their dealers.



**NEW VOIT SNUG-PACK**—A unique, new "Snug-Pack" has been developed by the W. J. Voit Rubber Corp. Designed to replace cumbersome harnesses, the back plate of the Voit Snug-Pack is made of 100% rust free, molded fiberglass for maximum comfort and durability. The Snug-Pack features an exclusive wide strap harness with only one plated "D-ring" buckle, which eliminates any binding or chafing. A strong stainless steel band combines with a single quick release bolt to hold the tank securely in place with no chance of shift or roll. This feature also allows the diver to adjust the tank up or down for perfect individual comfort. The new contoured design distributes the tank weight over the entire back for better support. The Snug-Pack retails for \$19.95, or only \$2.50 with the purchase of a Voit tank block.



**B. F. GOODRICH SKIN DIVER GLOVE**, molded of famous Koroseal sponge the glove offers "wet suit" type insulation plus the five-fingered dexterity which is a must for precise operation of cameras, guns, pistols and other underwater exploring. Initial responses from divers indicate that they prefer the five-finger glove to the old-fashioned one finger mitten. The B.F.G. glove is of seamless contour-molded construction and can be pulled on or off easily because of its inside textured finish. Available in two colors, yellow or black, and in four sizes—Small, Medium, Large and Extra Large. Retail price is about \$4.95.



**POWERED** by a 2 H.P. Briggs & Stratton engine with retractable starter, this is the best in Hookah storage tanks, proof tested to 400 pounds with a working pressure of 190 pounds. Phenolic apoxey resin lined cured at 425 degrees F. and finished with a Hi-heat baked enamel. No sharp edges to tear wet suits when carried. Weighs only 32 pounds. Available from Portable Drill and Dredge or their dealers.



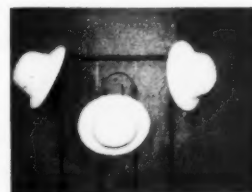
**VOIT VIKING 40-FATHOM REGULATOR**—Voit is now offering a deluxe single hose compensated regulator. The Viking two-stage demand regulator has been tested and reported to provide easy, trouble-free breathing at all depths. Chrome plated brass fittings and pearl grey neoprene mouthpiece, hose, headstrap and chin rest add to the quality of the regulator. There is a handy purge button for quick clearing through both sides of the mouthpiece. Another feature is the canted exhaust ports, which clear the air both away from and behind the face. The hose is swivel mounted at the mouthpiece to insure flexibility regardless of the face position. The retail price is \$65.00.



## ESCORT PORTABLE REFRIGERATOR

—A unique, universal, portable refrigerator is now available on the American market. Will carry twenty-five pounds of food and yet weighs only twenty-six pounds when empty.

Available in three models—electric, gas and combination gas-electric. The latter can be run on 110 volts or on any low voltage, can be plugged into cigarette lighter and run for hours off a car battery. Selectra Industries Ltd., SD, 22 Dorchester Avenue, Toronto 18, Ontario, Canada.

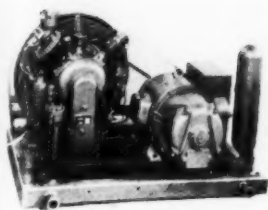


**ALL-PURPOSE HELMET**—Absolutely waterproof and sunproof. Made of 100% expanded polystyrene. Adjustable to all head sizes with interior plastic headband. Ideal for: boating, fishing, beachwear, golfing, gardening, construction, patrol work. Price \$1.98 from Lakeshore Dist., 555 Howard St., Lawrence, Mass.

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Sports



**K-15 MAKO COMPRESSOR**—Latest design four stage MAKO compressor. Output: 22 cu. ft. free air, 9.71 cu. ft. at 2800 psi, 9.45 cu. ft. at 4200 psi; weight 120, RPM 750, Gas, Diesel or Electric, skid or trailer mounted, three-valve filler manifold, low operating temperature, all accessories included. Underwater Sports, Inc., 2219 Biscayne Blvd., Miami, Fla. Cost approx. \$1500.00 complete.



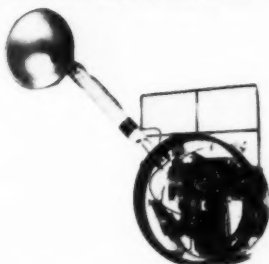
**SONAR TRANSISTORIZED DEPTH INDICATOR**—Model D-60—A compact unit that's easy to install (temporarily or permanently) anywhere on any size boat... small and light enough to hold in one hand... and reads up to 120 feet on two revolutions. An indispensable aid, for skin divers. The Sonar Transistorized Depth Indicator is ruggedly constructed for years of dependable service in a special aluminum, salt water spray-resistant, non-magnetic case. Will operate from own battery or from 6 or 12 volt marine battery. Sonar Radio Corp., 3050 West 21st Street, Brooklyn 24, New York.



**DOLFIN SPEED SUIT**, made entirely of 100% Nylon Tricot, is lightweight (2 to 3 ounces) and is double lined throughout for complete comfort and protection. The suit dries almost instantly and it folds to fit pocket or purse. An exceptional suit for skin divers and competitive swimmers. Ideal for youngsters since it's easy to keep clean and is inexpensive. Available in scarlet, royal blue and black. Suggested retail prices: \$3.95, men's and boys' suits; \$6.95, women's and girls' suits. Dolfin Sportswear, Shillington, Pa.



**PIRELLI ARIES "PNEUMATIC" GUN**—The compressed air does not exhaust after every shot. It merely remains inside the barrel, ready to be used for an indefinite number of re-loadings. Features: reverse shaft manual pumping, center balance, corrosion resistant materials, easy recovery of weapon due to floatable chamber. Price—\$49.95. Distributed by Sport-O-Mation, Box 58254, Los Angeles 58, Calif.



A BC FLASH KIT has been added to the line of Dive-Rite parts for camera housings. Consisting of a corrosion resisting bulb socket, reflector, extension arm, nylon jacks with 'O' ring seal, 22½ volt battery, battery clip, heavy duty condenser, resistor and shutter cord receptacle, all wired—just two soldered connections to jacks required. For housings of any material—requires only 3 cu. in. of internal space. Complete with diagram and instructions, \$35. Dive-Rite, Box 3445, Long Beach, Calif.



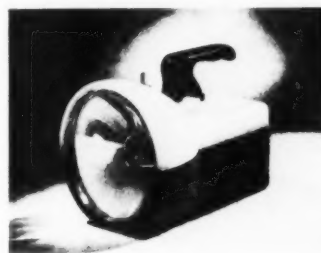
**SPORTSWAYS TANK PACK HARNESS**—Standard with the Waterlung or sold separately. Easily transferred from one tank to another, cuts down on adjustments, personal harness will always fit. Price—\$15.95, Dist. by Sportsways.



**CONTOUR TAILORING** is the skill practiced by the craftsmen of Aquala Sport Mfg. Co. of Los Angeles. Contour Tailoring results in absolute fit of the Aquala world famous Wet Suit... an important feature to the increasing number of women skin divers.



**BOATING SONGS/AND ALL THAT BILGE**—A 12" LP record album with original songs written and sung by Oscar Brand, with an assist from the Sea Wolves—has just been released by Elektra Records. This unique album, performed in a humorous vein, pays tribute to skippers of both sail and power boats. Selections include "U. S. Power Squadron," "The Captain's Daughter," "Ten Little Fishermen," "Yacht Club Blues," "Head On The Yacht Club Bar," "Small Boat Calypso," "Skin Diver's Lament," "Wet Pants Club," "Blow Me Home," and many others. Oscar Brand, an ardent boat lover, is widely known as a folk singer and film writer. For the past 15 years, he has hosted his own radio programs. He has written many popular hit songs including "A Guy Is A Guy." **BOATING SONGS** is Brand's seventh Elektra album.



**NEW PORTABLE LIGHT**—Simple construction makes it possible to change lamp, battery, switch or contacts in a matter of seconds. The StoutLite is compact, measuring only 7"x5"x4½". It is individually packaged and retails at \$8.95. Complete catalog information is available by writing Stoutenburgh Manufacturing Company, Inc., 216 Mt. Paran Road, N.W., Atlanta 5, Georgia.



**HERE'S A RUGGED 14' boat** made by Goodwin-Built Boats in Redondo Beach. Notice the heavy chines on the bottom for landing on the beach and rocks. More room than enough for three divers and their gear. Does about 15 miles an hour with a 15 horse motor on it and is extremely stable in rough water. \$375 complete Goodwin-Built Boats, 5203 Ruby St., Torrance, Calif.



# RECORD HOLDER TO CROSS ENGLISH CHANNEL UNDERWATER

**L**OVELY 25-year-old blonde will soon be giving the fish in the English Channel something over which to flap their gills.

Mrs. Jane Lisle Baldasare, an Astoria, Long Island housewife, hopes to become the first person to swim the English Channel underwater.

Mrs. Baldasare plans to make her attempt in the last week of August or the first week of September. Her take-off point will be Gris Nez, France, and her target will be England's Dover, 23 air miles away.

However, tides and currents are expected to force Mrs. Baldasare to cover at least twice the 23 crow-flight miles. Experts feel a minimum of 50 underwater hours would be necessary to complete the attempt. Mrs. Baldasare has repeatedly said she is determined to make the swim, even if it means remaining submerged much longer than the estimated 50 hours.

The striking mermaid is no stranger to the deep. She has remained under water for 100 hours, a record at the time, and also holds the standard for long-distance underwater swimming at 14 miles.

The W. J. Voit Rubber Corp. of Los Angeles, which manufactures a complete line of underwater equipment, has provided the daring Mrs. Baldasare with various items of gear for the adventure.

For example, Voit will give her an allotment of lungs, fins, masks, gauges and other essentials. For comfort and relief Mrs. Baldasare will be provided a variety of fins, masks and other models. She will be able to switch to the various fashions in fins, using both strap models and full-pocket types both stiff and flexible, in order to give certain muscles a rest at periodic intervals. Voit has also made available its underwater expert, former Navy diver Art Stanfield, for



Jane Baldasare, who will attempt to become the first person to swim the English Channel underwater, receives a Voit lung from company president Bud Godfrey.

counsel and advice in technical matters.

Preliminary plans call for Mrs. Baldasare to be accompanied at all times by divers working in relays. Her course will be mapped by both lights and yellow markers pulled by accompanying craft. The divers will aid her in changing air tanks at 30-minute intervals. They will also provide her with food and stand watch when she sleeps.

Research is being conducted into the communications operation. Mrs. Baldasare hopes to use an electronic two-way speaking system with the support boat. If this method proves impracticable, she will write her messages on a slate.

Mrs. Baldasare has learned to drink liquid foods from bottles while submerged and has also mastered the art of taking quick naps while floating beneath the surface.

The young housewife, who normally weighs 120 pounds, plans to enter the water weighing between 130 and 135 pounds, the result of a heavy milk and starch diet, including extra helpings of her favorite food—bananas. She expects to lose between 10 and 20 pounds on the swim.

Mrs. Baldasare plans to spend a minimum of six hours daily for a period of six weeks in preparing for her swim. In addition to the physical toughening required, the crew will practice the techniques involved in setting the course, switching equipment and the various other operations involved.

Mrs. Baldasare departed for England Tuesday, July 5. She will enter training at Billy Butlin's resort colony at Bognor-Regis, about 50 miles from London near Brighton, and remain there until approximately August 20.

## JUNIOR FIN FANS

(Continued from Page 30)

ways busy planning more fin fun for young people everywhere. The high standards maintained for all those connected with this program, have earned the respect of divers across the nation.

Will YOU be one of the 6000 new Junior Frogmen qualified this year?

### JUNIOR FROGMEN CALENDAR OF EVENTS

August 17: Southern California Junior Frogmen—Mask and Fins Relays

August 26: Junior Frogmen trip with Pacific Fleet at Coronado

September 17: Pacific Coast Junior Frogmen — Mask and Fins Relays

September 23: Junior Frogmen — Mask and Fins Award Night featuring movie stars and aquatic celebrities.

### THE PLEDGE OF THE JUNIOR FROGMEN

I, as a Junior Frogman, accept a responsibility for the exploration and preservation of a vast new recreation, research and resources area

that covers more than 70 percent of the earth's surface. The challenge of this responsibility shall be met by me through the following aims:

1. To protect and preserve the natural plant life and underwater animals by observing the principles of good conservation.
2. To take from the sea only those things that can be used and not wasted.
3. To explore and experiment so that the people in the world above can benefit by the knowledge secured by the underwater Frogmen.
4. To obey at all times the rules of safety that have been taught me and to encourage others to do so.
5. To display courtesy and good fellowship to fellow travelers of the sea so that their enjoyment and safety is increased by my presence.

**HI, THERE, JUNIORS!** This page is just for you. Each month we'll swap stories with diving buddies near and far. So if there's something fishy going on in your town, we want to hear about it.

Just drop a line down to:  
**JUNIOR FIN FANS'  
UNDERWATER MAILBOX  
c/o SKIN DIVER MAGAZINE  
LYNWOOD, CALIFORNIA**

## CENTRAL CALIFORNIA COUNCIL OF DIVING CLUBS

By Marlene Strawn  
15558 Wicks Blvd.  
San Leandro, Calif.



A clear, inviting ocean warmly welcomed the honor of hosting the top twenty-eight diving teams in California for the Southwest Pacific Coast Championships held in Monterey at Cannery Row, June 12. Beach operation committees outdid themselves performing the many duties necessary to make this meet successful. Adding to Cen-Cal's esteem was the pride in having a Cen-Cal team place in the top three teams for the first time in the history of these annual meets, and five teams placing in the top ten.

The East Bay Barnacles, Cen-Cal champs, consisting of Howard Strawn, Harry Hague, and Jack Reshatoff took the third place bronze trophy, and therefore, represented Cen-Cal in the Nationals at Laguna.

Here's a fish story for you; Harry Hague missed the third place trophy for largest fish by a mere 1/2 ounce, and the irony of it all was that his fish was a sheephead, very rare in the northern waters.

Among the many clubs and individuals who cooperated to help make such a well-run meet were Ed Kenney, his crew of Barnacles for set-up; Gay Dutcher and Sonoma County Reef Runners, weigh-in; Roger Chung and Mobv Dicks, publicity; Jack Tees and Oakland Eels; Eloise and George Shaw and Aqua Lancers, Achie Waterbury, emcee; Roy Yakote, photographer; Panther Rod and Gun Club; Cannery Row property owners: Mayor Chedo Russo; representatives of Healthways, and Voit Rubber Companies; and many other willing and capable individuals. Also thanks goes to Sam's Fishing Fleet and Randy's Fish Market for cleaning, freezing, storing, and delivering the fish as needed to the Carmelites.

The top ten teams scored in this order: Long Beach Neptunes, 79.9 points; Sea Bears of Long Beach, 68.5 points; East Bay Barnacles of Oakland, 61.15 points; Pescadores of Los Angeles, 58.1 points; Muirmen of Los Angeles, 54.9 points; Sea Otters of Monterey, 47.12 points; Addicts No. 1 of San Diego, 47.7 points; Aqua Lancers of

Fremont, 39.1 points; Panther Rod and Gun Club of Oakland, 38.9 points; Monterey Sunfish, 36.7 points.

The first inland fresh-water meet was held June 4, and from all reports the meet was exciting and the local divers look forward to more.

The Conference of California Councils will hold their second meeting August 6, in Santa Barbara, with Cen-Cal as hosts. Issues of all phases of skin diving will be hashed out between the three councils at this important meeting.

Cen-Cal received a letter asking if we had any ham radio operators in the council. Cen-Cal would like to know if the interest is great enough to possibly develop a new outlet. Amateur radio operators please send their names, addresses, and call letters to the secretary.

The pilot trip for the Steinhart Aquarium was termed successful, and more specimen collecting trips will be planned in the future. If interested, write Archie.

Response from underwater shutter bugs is coming in favorably, reports photography chairman Al Giddings. For information on this subject write Al at 52 Woodland Avenue, San Anselmo.

Cen-Cal shoulder patches are now available and orders may be placed by contacting the secretary. Diving clubs in the Cen-Cal area with news items of diving interest please forward information to Marlene Strawn.

## CONNECTICUT COUNCIL OF DIVING CLUBS

LEONARD GREEN  
P. O. Box 1446  
New Haven, Conn.

Congratulations to Richard Purchase of the Tide Runners who was the lucky winner of the Council raffle and the 15-foot Malayan fiberglass boat, fully equipped with a 40 horsepower Scott motor, electric starter, water skis, and boat trailer.

**Associated Skin Divers, Inc.—Reporter Shirley Johnson**—The Associated Skin Divers, Inc. second annual Sea Scavenger Hunt was held at Quonaquoutog, R. I. Prizes were awarded on a point basis. Stan Levine scored first prize, a wet suit; second Les Harlies, a Sea Pearl watch; and third William Berk, a spear gun. Other lucky entrants were John Roderiques, Donald Dagnall, Frank Kelly, Rudy Sieling, Herb Lide, Edward Catley and Bill Brown.

Trophies for the highest score in the men's and women's divisions were awarded to Stan Levine and Betty Smith. Don Dagnall was awarded the prize for the most unusual object found. Any diver locating our pirate treasure chest (lost at sea in 10 feet of water) will be rewarded a free cup of coffee at the Johnson's Ocean Ridge, South Kingston, Rhode Island.

At the last Council meeting diving instructors certificates were presented to Al Cussano of the Barnacles, Paul Tzimoulis of the Tritons, Jack Hricko of Nor Wests, Will Jacobs of the Sea Devils, Tony Cassano of the Sea Devils, Paul Boy of the Sea Devils, and Bob Canary and Al Stover of the Dolphins.

**Connecticut Sea Devils**—The last copy of the Connecticut Digest carried the following article. "The man who invented the 'Aqua-Lung' is working this minute on a new film and Connecticut will be one of its first stops. Sometime in January the Sea Devils will present Capt. Jacques-Yves Cousteau's latest underwater epic at the Bushnell Memorial in Hartford. More details will follow soon." If this new movie is half as good as "The Silent World," it will be one not to be missed by anyone, diver or not.

**Park City Diving Association—Reporter Rudy Sieling**—A committee was formed to take care of the details of our forthcoming dance this fall. We are also trying to decide if we want to make our club co-ed. We hope to reach a decision by our next business meeting.

Three members of the club attended the Associated Skin Divers Scavenger hunt at Quonaquoutog, Rhode Island. It was their first competition and two of them did quite well. Frank Kelly placed fifth and received a pressure gauge and Rudy Sieling placed sixth and received a pair of fins.

The committee on the Connecticut Open Spearfishing Championship has been working hard and can promise anyone who competes in this meet a variety of prizes unequalled by none. Posters have been distributed to all diving and sport shops in the state and in a short while application forms will be available.



By Sonny Logan  
3772 Matador Dr.  
Dallas 20, Texas

The spearfishing contest held at Possum Kingdom June 12th had over 84 divers entered. A heavy rain storm sent most of the divers for cover but not until the contest was officially over. Largest fish was taken by Jack Farleigh of Ft. Worth, a 9 lb. 7 oz. buffalo. Second largest was Floyd Pack also of Ft. Worth with 9 lbs. 4 ozs. And third was Sonny Logan of the Garland Club with 8 lbs. 9 ozs. The winning team of Russ Bebout, Jack Farleigh, and Erwin Click brought in 63 lbs. of fish. The second place team was Walter Mathis, Michael Wicker, and Floyd Pack with 54 lbs. Third place team was J. H. Jones and W. J. Salik of the Chance-Vought club with 48 lbs. The sportsmanship award went to the Almeda

(Continued Next Page)

(Continued from Page 47)

club for driving all the way from Houston expecting to skin dive, so they didn't bring any equipment. As it turned out it was a scuba contest but they competed anyway without equipment, so they deserved the prize.

We had a mix up of the rules and it was soon discovered that a lack of proper communications was the cause of it. I might add for future reference, that in council sanctioned meets the choice of the type of diving (skin or scuba) is left up to the person entering the meet. Sponsoring clubs should make prior arrangements for trophies for each type of divers, but this is up to the club as to which type of event they are promoting.

We have two adventurous souls from our area enroute to Alaska to try their hand at gold diving. They are Howard Tollison and Mickey Swint of the Chance-Vought Skin Divers Assn. They took some \$2000 worth of equipment with them and expect to be working north of Anchorage. Members of their club saw them off for their three months' trip.

Leaders in the scuba championships are: E. A. Click, 13 points; R. C. Lupton, 11 points; Jack Farleigh and Russ Bebout with 10 points each; Jack Church, 8 points; and Floyd Pack, 7 points. All are from the Ft. Worth club.

I would like to welcome some new clubs into the council. The YMCA Desert Divers, Frank Parrish, president; and the Borger Skin Divers Assn. with Larry Speegle, president. The Amarillo Skin Scuba Club is also in the process of joining with Don Beers as the leader for the group.

**Garland Divers Inc.**—New club officers were elected at the last meeting. They are: Les Hart, president; Chuck Burns, vice-president; and Freddy Youmans, secretary-treasurer. Several new members were admitted to membership in the club.

At the regular club meeting, held at Anchor Marine Supply a good movie was shown called "Underwater Holiday" also movies taken on a club trip out in the Gulf on a new shrimp boat.

The Garland club entered two teams in the Possum Kingdom 3rd annual spearfishing contest this past June 12th. Plans are set for the trip to the Gulf again and to Lake Travis for a contest.

Divers in the Dallas-Garland-Richardson area wishing to join our club should call Les Hart at BR 8-8573 in Garland. Meetings are held the second Thursday of each month.



By DON C. KENLEY

2008 Spruce St.  
Philadelphia 3, Pa.

The 1960 MAUC team spearfishing meet proved to be the finest ever held in Council's history. The day of the meet was clear and water visibility was the best ever encountered at the Lewes, Delaware, Breakwater.

Winning teams in the order they placed were the Abington Sub-Mariners, Delaware Underwater Swim Club and the Maryland Water Bugs. Individual members of the Sub-Mariners team are Charlie Regal, Joe Thompson and "Jeep" Snyder.

For the first time the Council team selected for the Underwater Society finals was comprised of the three divers who attained the highest number of points in the individual and team competitions, regardless of club affiliations. The MAUC Team for 1960 is composed of Joe Thompson, captain; Charlie Regal of the Abington Sub-Mariners and Chip Cooper of the Delaware Underwater Swim Club. In order to send the team to Laguna Beach for the Nationals the Council sponsored a very successful showing of the movie "Water World," produced and narrated by Stanton Waterman. Because of the fine quality of the movie, Council has made plans to bring Waterman back in the fall with his newest films.

The Council welcomes into its membership the Aqualiers Diving Club of Chester, Penna. Unaffiliated divers interested in joining the Aqualiers should contact Everett Snyder at 106 Moser Street, Aston Township, Chester, Penna.

Council clubs have been very active with the arrival of warm weather. The Sub-Committee of Washington, D.C., has been working on a unique project for the National Arboretum. In water with zero visibility and six to fifteen feet deep, they have been digging stick-like lily roots from the bottom of a pond.

The Pittsburgh Scuba Divers travelled to Atlantic City, New Jersey, where they were joined by the Underwater Explorers Club of Philadelphia for a day of wreck hounding dives off the New Jersey coast.

Members of the Underwater Explorers Club will spend two weeks in August on a diving cruise of the Bahama Islands. During the cruise they will visit with their former president Curt Yeske who now runs a diving school on Grand Bahama Island.

Any clubs or individual divers in the MAUC area desiring diving information or affiliation with the Council are invited to contact the author of this column.

## ONTARIO UNDERWATER COUNCIL

By J. K. LYNN  
Box 422  
Adelaide P. O.  
Toronto, Ont., Canada

We now have fourteen clubs as members of the Ontario Underwater Council. We are very interested in increasing our membership and would like to hear from other clubs who might like to join the Council and provide their support in the interest of skin diving in Ontario.

With the tremendous interest in skin diving prevalent today, and increasing tomorrow, it is imperative for all clubs to join a society or council to assist in standardizing a training program, so all prospective members may be assured of the best training and safe diving. There are many other facets to the benefits which will accrue to all of us as members of a Council, i.e. competitive diving, safety direction and organized outings.

This Council has had a large part in the recent recognition of the Divers Flag by the Department of Transport, in Ottawa, Canada. As far as is known, this is the first country to do this. For the information of divers in Canada and the United States, the following excerpt from the Dominion of Canada, Notice to Mariners, Item 17, Divers Flag, might be of interest.

"Several organizations engaged in diving and related underwater operations have informed the Department of Transport of their intentions to display a distinctive signal to indicate these activities.

This signal is in the form of a red square flag with a white diagonal stripe extending from the top of the hoist to the bottom of the fly and may be exhibited from a vessel, marine plant or floating marker. The signal is only indicative and confers no special rights or privileges on the exhibitor.

Mariners and others concerned are advised to exercise particular vigilance and care when navigating in waters where this signal is exhibited. Department of Transport, Ottawa, Canada. J. R. BALDWIN, Deputy Minister."



### BOLANITE ORIGINALS FOR WATER SPORTS ENTHUSIASTS

A hand silk screened imprint in three vivid colors on a heavy weight fleece lined, white cotton sportshirt with zipper collar. Specify long or short sleeve, also S, M, L, or XL.

**\$395** prepaid  
No. C.O.D.'s

California residents add 16c sales tax.  
Offer restricted to U. S. and Canada.

Special Rates and Designs for Clubs  
and Organizations

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# MASSACHUSETTS COUNCIL OF DIVING CLUBS, INC.

By RICK VAHAN

300 Harrison Ave., Boston 12, Mass.

One of the biggest "bugs" of the season taken in Massachusetts waters was this 11½ pounder caught by Ray Voutila, center, president of the Gardner Skin Divers Club, while diving in 50 feet of water off Rockport, Mass. Shown with Ray are two other members of the Gardner Club, which is a member of the Massachusetts Council of Diving Clubs. Al Doucette, left, and Fran Parady, right, West Coast divers, notice the claws.



Four members of the Worcester County Spearfishermen were chosen to represent the MCDC at the National Underwater Spearfishing championships in Laguna Beach, Calif. They were Ed Logan of Holden, Jim Gilmore of Worcester, Harold McKay of Whitinsville and Ted Christensen of Auburn.

Steve Labadini of Middlesex Divers and vice-president of MCDC made a good find at an undisclosed location not long ago while diving with Jerry O'Neill and Dr. Mickey Robinson. The trio came across the remains of a 40-foot power boat which they estimated sank between 20 and 30 years ago. They salvaged the propeller, shaft and a 10-foot anchor from about 30 feet of water.

The Sea Rovers are offering the second edition of their diving course—a 70-page text—to any and all diving instructors who

are interested. There's no charge, but the club emphasized this is not a do-it-yourself course. It is a suggested course outline for use of instructors. The manual is available by writing to the Boston YMCA, 316 Huntington Ave., Boston, Mass., and requesting the Sea Rovers-YMCA diving course.

Walter Feinberg of the Sea Rovers is a diver who has long been concerned about the quality of the air being pumped. Through his efforts, a testing laboratory on California St., Newton, Mass., has consented to test the contents of diving tanks for a fee. The firm is Skinner and Sherman, and they use the California Council Pure Air Test. The laboratory points out they cannot put their stamp of approval on compressors but simply can test the contents of a given tank and report on it to the persons interested.

The MCDC dance was held at the Town Crest Country Club in Worcester, just down the road a short distance from the clubhouse of the Worcester Frogmen.

**SAFETY NOTE** of the month comes from Steve Labadini.

"The ICC requires tanks used for compressed air to be tested every five years, but because of the unusual stress placed on diving tanks, divers should do better than the law requires. If you use your tanks with any frequency, have them tested every 2½ or 3 years. It's for your own personal benefit. When tanks are given the ICC test they are cleaned out also. If your tanks have been dropped, subjected to unusual stresses of any sort or have any rust in them, there may be weak spots in the metal. The tests will show these up before they reach the danger point, and the tanks can be replaced."

## GREATER LOS ANGELES COUNCIL OF DIVING CLUBS

By Ron Merker

11512 Bolsa

Santa Ana, California

As of now the Council represents about fifty paid up clubs, but there is still lots of room for more. Now we have the problem of getting club representatives to show up at our meetings. Have your representative at our meetings to vote in your behalf. Each club has one vote for each paid member.

The new Council emblem should be appearing in some of the local shops now. When you see the Council emblem in a diving shop you know that they are supporting your Council.

The mid-year Council report includes a summary of everything the Council has had a hand in the first half of this year. This will include a summary of three competitive dives, a clam dive and chowder, an award dinner, our position with the Underwater

Society of America, a treasurer's report, minutes from the six meetings to July and last a summary of what we will try to accomplish in the next six months.

**Fathomiers—Reporter Bob Garcia**—Due to outside commitments, our president and treasurer had to resign from the club. To replace them, a special election was called. Tom Phillips was elected president and Bob Garcia was elected as the new secretary. One of our newer members, Bob Sellers, was elected treasurer.

We have numerous trips planned, to the Islands, lower California, and some of the members are even trying their hand at gold mining. Five members of the club are eligible for the special award given to a diver or divers, who performs a lifesaving act. These divers are: Al Schuck, Ed Gulley, Bob White, Bill Baker and Tom Phillips. The rest of the club members are proud of them. Interested prospective members contact Bob Garcia, 929 Sharonlee Drive, West Covina, California, ED 8-0086.

**Newport Harbor Sub-Mariners**—Reporter John Miller—Having placed first in the B division, our spearfishing team Ron Merker, Blair Smith and Bill Riss along with other club members are now out spearfishing big sea bass. Merker is off to a good start with a 43 lb. white sea bass taken at Catalina Island. Riss recently returned from a dive at La Jolla with a fine 25 lb. halibut on his stringer.

Todos Santos islands off Ensenada furnished a new diving area for a group of us recently. A leopard shark and several large calico bass brought in, added color to the stories told around the campfire in the evening.

**Westchester Kelp Dwellers—Los Angeles**—Reporter Jerry Clevenger—We organized two months ago and our membership of eleven is registered with the Council. We are sponsored by Alpine Ski and Sports.

**Poscidon Diving Club—Beverly Hills**—Reporter Howard Barbee—New officers are: Bill Irons, president; Irene Grant, vice-president; Ursula Greenfield, secretary; Francine Roth, secretary; Mike Robbins, treasurer; Burt Alexander, safety officer; Howard Barbee, advertising and public relations.

The Poscidons are affiliated with the Sunland Sports Lodge where their meetings are held on the last Tuesday of each month. Four of our divers are members of the Air-Sea Rescue Group of the Coast Guard Auxiliary. This is the first group in the country to utilize the scuba diver as an intricate part of rescue work.

The club has its own charter dives and are always glad to help members and potential members with their equipment. If you are not a diver and are interested in diving, you are invited to attend any of the meetings or call CRestview 1-5419 for further information.

## MICHIGAN . . .

**Web Foot Warriors—Marne—Reporter Herman Lindley**—We are a newly organized club with thirty members meeting bi-monthly at the Grand Rapids YMCA where we have full use of the pool. We are setting up a training program in the club.

Our officers are: Rocky Woodard, president; Irvin Weber, vice-president; Herman Lindley, secretary, and Jack Robles, treasurer.

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By **JIM KEENEY**  
415 Clifford Street  
Detroit 26, Michigan

The M.S.D.C. safety director and officers are, at present, working on the instructor certification program. The magnitude of this job was considered before its undertaking but the full realization didn't hit us until after we got our feet wet. The certification of instructors in Michigan is still our goal

and the project is progressing quite smoothly, so we should have some more information for you in the near future.

On behalf of the members of M.S.D.C. who journeyed to Mansfield, Ohio, to enter the competition, I would like to extend a very hearty, "Well Done." The contest was well organized and the hospitality was overwhelming. There were 175 divers from seven states attending.

Just a brief note to all the people who send correspondence to me c/o M.S.D.C.—I have been averaging over 15 letters a week—so, if your reply is a little slow, please forgive me.

The M.S.D.C. Spearfishing Contest held at Sunshine Beach, Utica, Michigan, was won by the Utica Scuba Divers. Second place was won by the Ford Sea Horses and Treasure Unlimited came in third.

The Ann Arbor Amphibians have well earned the choice this month as Club of the Month. The Amphibians are one of the oldest diving clubs in the state and are proud to have as one of their members a former "Diver of the Year." The Amphibs always have a nice turnout at all the Council events and if they don't win, they are in there pushing so that the winners know they have been in competition. Officers are: president, Bob Stepp; vice-president, Robert Cooley; secretary, Glen Lidtke; treasurer, Lee Drake. Correspondence may be addressed to Glen Lidtke, P. O. Box 1022, Ann Arbor, Mich.

Note to club reporters—Please have your club report to me by the 5th of each month, so it can be forwarded to "Skin Diver Magazine" promptly and make the current edition.

**Ford Sea Horses—Dearborn—Reporter Gordon Bartell**—Our top team of Dick Metzler, Al Corn, and Jerry Walker took second place in the M.S.D.C. Spearfishing Contest recently. This team was first place last year. Paul Whitlack was host to a number of members that went to Hidden Lake near Rochester, to look for a motor that was lost. Jerry Walker found the motor by using a search line in the murky water.

Upper Straits Lake was the scene of our last dive; it was fairly clear and looks promising for the future outings.

**Dolphin Diving Club—Detroit—Reporter Pete Sisoy**—Our skin diving holiday in the Florida Keys was a great success. Nine divers and a member of the Ford Sea Horses had four action-packed days of skin diving and one day of beachcombing. The novices to the Florida Keys waters were awed at the clarity of the water and the abundance of marine life. Many hours were spent snorkeling along the coral reefs just viewing the underwater fantasy.

Plenty of movies were taken both above and below the surface showing the variety of fish speared which included four moray

(Continued on Page 52)

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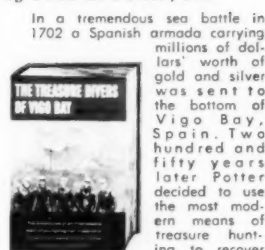
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by John S. Potter, Jr.



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(Continued from Page 50)

eels, two barracuda, some grouper, snapper and mackerel. Brain coral, conch shells, silver dollars and starfish were retrieved from the ocean floor.

**Gasco Scubaneers — Wyandotte — Reporter Donna Schrantz**—On Sunday, June 5th, several members of our club discovered an automobile in a small quarry near Monroe, Michigan. At the request of the local police department, Jim Keeney, Jim Sanderson, Bill Gehlert and Gene Adamski raised the vehicle to the surface. The car, which was stolen, was lying at an approximate depth of 55 feet. Assistance of this nature benefits not only those agencies requiring such aid, but also promotes the name of diving in general.

### NEW YORK...

**Long Island Pilot Fish—Ozone Park—Reporter Kathleen Maher**—On deck and ready to plunge into their first year of underwater adventures is the newly formed Long Island Pilot Fish Skin Diving Club. Membership is expected to increase as the club becomes more widely known.

Since we are newly formed, our activities have been limited. Officers were elected and a few unofficial dives around the Long Island Area have been scheduled. The officers elected are as follows: president, Don Bronnenkant; vice-president, Bob Woods; treasurer, Dick Bolando; secretary, Kay Maher; and club advisor, Robert Bracilano.

**The South Shore Sea Kings—Brooklyn—Reporter Ron Terceira**—With the warm weather club activity is reaching its peak. We had a series of five treasure hunts with the Golden Sharks Club during the past month. We were evenly matched enough to tie in the first four contests, but the SSSK went ahead to take the club trophy in the fifth.

Some future dives planned for this club are: scuba dives in Franklin Quarry and at Sakett Lake, trips to Rhode Island and Block Island, and spearfishing meets with the American Porpoise Club and the Golden Sharks Club. Our Club is now open for membership, and we are looking especially for people who have had some previous diving experience. If anyone is interested, call Jeanie Baker, NI 6-1712, Brooklyn, New York.

**Peekskill Diving Association, Inc — Reporter Eleanor Novak**—The Peekskill Diving Club has won its first trophy. They took fifth place in a Treasure Hunt sponsored by the Dutchess Divers.

Congratulations to the members of our club who participated, Al Tice, Ed Daly, Al Warren, Don and Marilyn Ettinger, Ralph Rizzo, Robert Ekatis, and John and Rose Corrigan.

Seven of our C.D. Rescue squad received a call for assistance to locate the body of 14-year-old Teddy Meyer, from the waters of Old Lake Shenorock. They assisted the Somers Fire Department and State Police. They were hampered by an extremely muddy bottom, and remained on the job long after darkness had fallen. With the use of portable floodlights they continued the search. Dick French stumbled across the body in about six feet of water.

**Suffolk Sub-Mariners —Riverhead — Reporter Lester E. Gerard**—Several of the members have been diving on the wreck of "The Panther," an ocean going tug that went down off Shinnecock Inlet sixty years ago in about sixty feet of water. Its location approximately two miles off shore makes it

ideal for members interested in every phase of the sport. A recent excursion netted several lobsters in the ten pound class, and one that went twelve pounds. Visibility ranging from thirty to fifty feet provides ample opportunity for photographers, and fish of all local variety abound.

In another department much attention has been drawn to the Anti-Spearfishing Diving Ordinance of Easthampton (L.I.) Township. The club has backed the Empire State Council in its efforts to knock out this ruling which prevents divers use of the ocean within 1,500 feet off shore in an area known for its excellent spearfishing.

**Manhattan Skin Divers—Reporter J. D. York**—About the most important news to report is the Empire State Council spearfishing contest held at Montauk, L. I. The weather started beautiful, turned cloudy and finished with rain. We had a full moon spring tide the night before and visibility was about five feet, dropping to two feet in places.

Of over 20 clubs starting we came in third a drop from second last year. We also got the largest fish trophy thanks to Phil Shapkin. The other two divers of our first string were Bob Burke and Mel Malavos.

The legal eagle of our club Murry Seliger will have his test case tried for skin diving soon. He is being backed by the council and other groups. His arrest was on N.B.C.—TV news here in New York.

**Bay Ridge Divers Association—Brooklyn—Reporter Vincent Gugliotti**—We have done some work for the N. Y. Aquarium, and two of our members are employed there. During the summer of '59 we donated a few species which are still on exhibit there.

We are actively working on a solution to the problem of skin diving on the beaches with N.Y.C. Park Commissioner Newbold Morris. Since Robert Moses no longer holds that position we are very hopeful about the results.

**Long Island Divers Association — Freeport — Reporter Pete Gellweiler**—L.I. Divers Association held open house, June 12. The informative and educational film "The Silent World" was shown. Three showings were necessary to accommodate the crowds.

Recently the dive planning committee spent a day locating and charting the 600 foot "San Diego" a World War I battle cruiser, which was sunk by a mine on July 19, 1918, suffering a loss of 50 lives and lies bottom up in 90 feet of water, approximately nine miles off Fire Island, N. Y. Plans are being made to have a membership dive at this location.

**Eastern Aquarians—Brooklyn—Reporter Thomas Maass**—In June our club celebrated its first anniversary and elected new officers. They are Bill Welter, president; Foster Baldwin, vice-president, Ann Slatery, treasurer; Sandy Moore, secretary, and Thomas Maass, sergeant-at-arms.

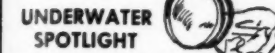
### TEXAS...

**Vikings — Fort Hood — Reporter Sfc. Donald J. Yanda**—We started our club this past May and have 16 members, all stationed with the 67th Armored Battalion. Plans for the near future call for lake dives and a trip to the Gulf. We would like to hear from other military clubs around the world. Write to Sfc. Yanda, 1105 S. 15th St., Copperas Cove, Texas.

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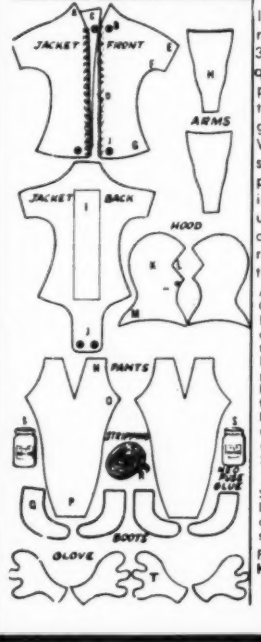
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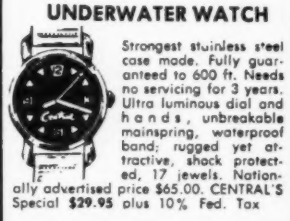
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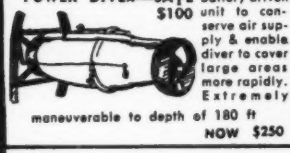


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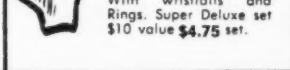


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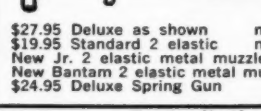


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By **JOHN J. McANIFF**  
359 Walcott Ave.  
Middletown, R. I.



The Rhode Island Council held a most successful meet on June 12th to determine who would represent our little state in the National Underwater Spearfishing Championships at Laguna Beach, California. The Rhode Island Team Championships were run off at Sachuest Point with eleven teams competing. Plagued by high seas and a driving rain plus forty mile an hour winds, the thirty-three competitors from nine different clubs really proved they are of championship caliber by bringing in more fish than in any previous R. I. competition.

The first place position went to the number one team from the Newport Underwater Sportsmen with a point total of 134. This team consisted of Captain Edward Bradbury, John Jagschitz, and Carl Lindh. Placing second in the state meet was the team from the Narragansett Spearfishing Club with 100 points. This team had a very unfortunate incident which may have cost them the title when team member Don Bibeau had one of his stringers break as he was leaving the water in heavy surf near the end of the meet. The five large blackfish on the stringer went helter skelter and Don's frantic efforts managed to retrieve two before the pounding surf carried the other three away. These two when weighed in were both five pounders. The Narragansett team received some solace when their Captain, Charlie Hull landed the largest fish of the day, a seven pound seven ounce blackfish.



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Featuring

SOUTH PACIFIC DIVING



The Rhode Island Underwater Spearfishermen who are always a strong team placed third this year with a total of 92 points. Dan Prescott of this team scored 46 of the 92 points to help them to the third place honors.

John Jagschitz of the new Rhode Island Championship Team took top honors of the day for the largest individual point total, scoring 70 of his team's total points.

In other news in the area, a man who proposed to set up a marine archeological society here has shown no accomplishment in his ten or more months in Newport and of late seems to have flown the coop. A short time ago it was announced that the proposed marine museum would not be opened this year as its director would be traveling to Europe for further research. Further comment on this issue may be forthcoming in future articles if our own search for information proves fruitful.

A group known as Submarine Researchers, Inc. has taken up where our own Newport divers left off last fall on the exploration of the sunken Nazi submarine the U-853 off Block Island and this week brought up the first skeleton of a crew member which will be turned over to the West German government for proper interment. Working since last May, the group has undertaken a very careful study of the entire sunken hulk and has followed a systematic plan on their exploration of this last German submarine sunk in the European phase of World War II.

Club reports are not being sent to your reporter and without them we can not give you too much information. To all Council Clubs: please get your reports to me by the fifteenth of each month if we are to get them into "Skin Diver."

A late item that just came in is really news: Frank Anderson of the Little Rhody Skin Divers has single handedly speared and captured a mammoth sting ray weighing 176 pounds. In a hard fought five-hour battle Frank's biggest problem was in staying clear of the two massive stingers on the ray's tail. When he had finally subdued the fish he still had a two hour swim to bring the catch to shore at Jerusalem, R. I. Congratulations Frank on a fine catch.

Also late news; John Jagschitz of the R. I. State Championship Team landed a whopping 44 pounds 3 ounce striper off Brenton Reef last Sunday. Till next month, good luck and dive safely. »

#### KENTUCKY . . .

Kentuckiana Scuba Divers, Inc.—Louisville—Reporter Gene E. Yost—We participated in the annual derby parade. Our float consisted of a boat full of complete diving attired members. We also participated in a water follies show at Tucker's Lake. Our part of the program included the raising of a sunken boat.

Kenneth Young, chairman of our club, was listening to his car radio when it was announced that a woman had driven a car into the Ohio River. He rushed to the scene where he met divers Art Smith and Joe Zook donning their equipment. The Coast Guard located the body floating on the surface before the divers entered the water. However, there existed the possibility of other occupants in the auto. Joe located the car and Kenneth attached the wrecker winch cable. Fortunately there were no others in the car. It's headlights were still burning after an hour underwater, but due to the turbidity this did not aid in the recovery.

Any Kentucky clubs interested in joining the Kentucky Council of Skin Diving Clubs, contact Kenneth Young, 755 South Shelby Street, Louisville, Kentucky. »



Wolf Fish of Rockport, Massachusetts, meets Joe Hohmann in a re-enactment of their first meeting underwater. Joe and Tom Fury were hunting for lobsters off Rockport when they met the Wolf Fish, stabbed and tussled with it to get the fish in their bag. During the melee the Wolf Fish viciously bit Hohmann on the right wrist.

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**ICey NEWS**

Illinois Council of  
Skin and Scuba  
Divers Inc.

By A. L. ANDERSON

Lawson Y.M.C.A.  
30 W. Chicago Ave.  
Chicago 10, Ill.



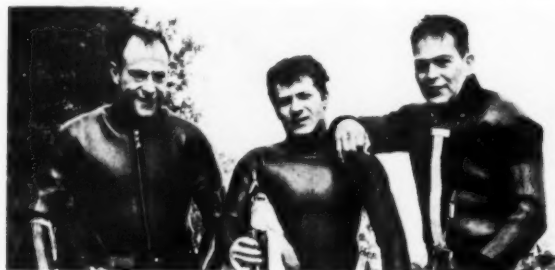
Thirty-five scuba instructors, aspiring to IC certification, participated in our first instructors' certification seminar conducted at the Keymen's Club in Chicago on May 29. For 11 solid hours the certifying board threw tests and quizzes, interspersed with classes or lectures by Ben Holderness of U.S. Divers Co.; Dick Losee, Director of the Chicago Institute of Aquatics; and Captain Gerald J. Duffner, MC, U.S. Navy.

Here are the ones who passed: Richard Malpass, Ted Melichar, William Vimont, Adolph Sykora, Harry Weimer, Richard Paterson, David Lichtfeld, Justin Mills, Elmer Munk, B. Val Williams, and Lee Somers.

Although the above make up the first published list of instructors showing knowledge and ability to instruct SSD to conform with what the Council considers minimum standards, all IC members of the certifying board had previously passed.

These additional certified divers include Ann Frame, Eugene Fox, Ray Hoglund, Gerald Kucek, Logan LaChance, Clarence Narbut, Don Oram, Vern Pedersen, Don Spiering, Joe Strykowski, and Dan Wagner.

On May 22, Lemont Quarry was the scene of the second annual state spearfishing meet and a beautiful day brought out 28 teams for the competition. First place team with an aggregate of 22.14 pounds was Ray Marcus, Pat Delaney and Bob Bingham. Second place was the Illinois Athletic Club, Jack Springer, Lou Kole, and Dick LeBond, 20.7 pounds; third place went to the 9/90 Divers, Jerry Frenzel, Joe Strykowski and Dick Malpass with an aggregate of 14.15.



Top team in the IC state spearfishing meet at Lemont Quarry was Ray Marcus, Pat Delaney and Bob Bingham. (Photo by Chicago Tribune).

A run-off in Lake Geneva on June 12, among the first 10 men, gave Illinois a strong team to send to the Nationals: Pat Delaney, Jack Springer, and Lee Somers.

This month we welcome six more clubs into the Council, the Kankakee Aquateers, Neptune's Warriors and the Isham Y Divers of Chicago, Depth Defiers of Bensenville, Mermates (Chicago Ridge), and are glad to have back with us again the Aqua Marine Scuba Divers of Chicago.

**Metro Chicago "Y" News—Reporter Don Lyon**—Winners of the 3rd Annual Photo and Salvage Contest, Metropolitan Chicago YMCA Skin and Scuba Diving Council, were announced at the termination of the banquet at West Suburban on May 21.

The Atlantis Divers lesson plan book, in use these past four years, will be available in its 12th revision at the Sports Council Assembly on September 10. This program has been adopted by the Metro Chicago and National YMCA Councils.

**Coral Divers—Reporter Bill Paris**—Members of the Lincoln Boys Club are now enjoying skin and scuba diving lessons free of charge, a program which is sponsored, organized and donated by the Coral Divers. All equipment is supplied at no cost by the Skin and Scuba Diving Shop.

We enjoyed a diving weekend in June at Watersmeet, Michigan, where we studied underwater tactics of trout and northern fish. Our July weekend trip was to Washington Island, Wisconsin.

**Aqua Rays—Reporter Michael Ray**—Ray Wigent had more for company than just fellow club members Jim Davis and John Scott in Stone Lake, Indiana. A seven-pound bass decided to investigate Ray's diving, and followed Ray with the determination of a private detective.

Equally curious about the bass, Ray at length kicked at his circling pursuer, only to have his fin nibbled by a bass not to be put off. He wasn't in the least scared, only amazed at the audacity of such behavior in a mere bass.

**Chi Divers—Reporter Paul E. Todd**—Organized in October, 1959, we joined the IC last January and have since applied for membership in the Underwater Society of America. Membership is open, to divers who can pass minimum requirement tests provided by our constitution.

**Twenty Fathom Club—Reporter Charlotte Brown**—Jim Minor, with the aid of Leo Darwit, Ted Kuksuk, Vern Stake and Diane Thomas, checked out a SSD class from George Williams College. Although the standard practice is scuba checkouts to 40, the students showed themselves so happily at home in the water that Jim and Leo took the majority of the collegians to 55 ft. The club is now practicing for the Sports Council lake meet coming September 11.

**Muffin Men—Reporter Chuck Fazio**—We were the ones who organized the IC's Treasure Hunt, the IC's state spearfishing meet, under supervision of Pres. Skeets La Chance, who just happens to be Chairman of Competitions Committee for the Council. We are also standing in line for congratulations on obtaining Doc Marcus as a new member of our little group—Doc only managed to get enough pounds of carp to make himself the champ at our meet—22 lbs. 14 oz. worth.

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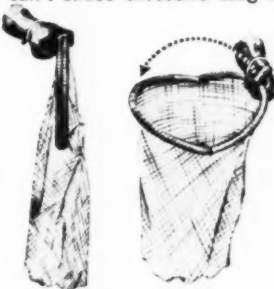
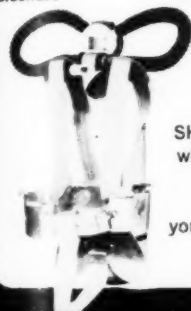
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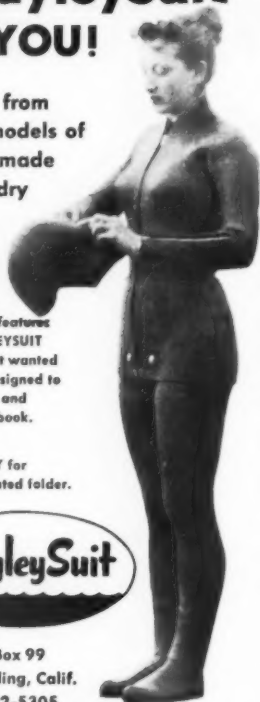
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Miami, Florida

The 1959 national championship spear-fishing team again proved their superiority by an easy win in the 1960 Southeast Council of Skin Diving Clubs championship contest. The Miami Skin Divers team of Don Del Monico, Paul Damman and Eugene Shinn scored heavily in the barracuda (15 points) and jack class (11 points) with six points in the snapper category and three points in groupers for a total of 34 points. The point system that is utilized in all SEC contests allows six points for the heaviest fish in each class, five for the next, etc., to the sixth heaviest fish which is worth one point. Classes of fish are grouper, jack, snapper and barracuda.

The second place slot was taken by the dark horse Miami Makos team of Harry McCabe, Harold Hudson and Jim Holland with 13½ points accumulated in the grouper and jack categories. The Makos 33 pound grouper took tops in that class and their 27 pound grouper was the fourth heaviest entry of that species. The Miami Black Fins (Jack Kearns, Jack Slack, Ken Simpson) came in third with ten points collected for groupers and one cuda.

Tops in the distaff division was the defending national championship team of Alma Beck and Ruth Cook of the Palm Beach Fin Divers. This team turned in four groupers and two snappers for a total of 11½ pounds. Mary Simpson and Pat Shinn of the Miami Skin Divers took second with five pounds of snappers. Third place went to Palm Beach Fin Divers Lee Philpott and Pat Clinton for their two pound groupers. Mrs. Simpson is the wife of Miami Black Fin's Ken Simpson and Mrs. Shinn, mother of three boys, is the wife of Miami Skin Diver Eugene Shinn.

Fourth place in the men's contest went to the University of Miami Sea Devils (Don Nelson, Otto Hasse, Martin Roessler) with 8½ points and there was a tie for fifth place between the Hialeah Reef Divers (F. Shulski, R. Moxely, D. Montgomery) and the Palm Beach Aqua Jets (P. Baynes, B. Rowe, S. Hunt) with each team collecting six points.

The five hour contest was conducted in the ocean off Homestead, Florida, between Pacific Light and the Whistle Buoy with the weather making up from clear to rainy with a squall line moving over the area. Financial sponsor of the contest was Lou Maxwell. The Florida Frogman, who operates a number of diving shops in south Florida. Men's manager was Don Myers.

The SEC season standings show: Miami Skin Divers, 94 points; Miami Black Fins, 41 points; UofM Sea Devils, 29½ points; Palm Beach Aqua Jets, 27 points; Miami Makos, 20½ points; Homestead AFB Gators, 7 points; Hialeah Reef Divers, 6 points; Skin Divers No. 2, 1 point. The other teams participating in the 1960 season did not point. The Miami Skin Divers and the Palm Beach Fin Diver girl's team defended 1959 national crowns at Laguna Beach. The



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Awards being presented to the Southeast Spearfishing champions of 1960: Paul Damman, Eugene Shinn, Patricia Shinn, Don Del Monica, Mary Simpson, Jack Kerns, Kenneth Simpson, Lou Maxwell (financial sponsor of the meet), Jack Slack and Jim Holland.

Southeast Council was represented by the Miami Black Fins men's team and the Miami Skin Diver girls.

A dynamic new diving club has been organized in the upper Florida Keys area where spearfishing is outlawed and skin diving is retarded because many divers consider the area off limits. The new club was initiated by Art McKee of McKee's Sunken Treasure and the response to the announcement demonstrated that a great number of upper-Key citizens approve of skin diving and are anxious to participate in the sport. A crowd of 50 skin divers and supporters turned out for the organizational meeting and advanced registrations brought the club strength up to 60 paid members by the end of the first meeting. The club was given the appropriate name of Florida Keys Treasure Divers and the meetings are conducted in

McKee's museum of underwater treasures.

Officers elected to direct the new organization are Art McKee, president; Charles Waggle Sr., vice-president; Miss Roney Mulhearn, secretary; Scooter Waggle, treasurer; and Bob Tothoroh, sergeant-at-arms. Aims of the club are to "... create an active interest in skin diving throughout the Keys; educate the people of the Keys to skin diving; encourage other groups to visit the area and to promote good sportsmanship among skin divers." President McKee states the organization is not political in scope and plans no campaign to abolish the existing spearfishing ban.

Clubs and individuals interested in obtaining information about skin diving in the upper Keys should direct inquiries to Florida Keys Treasure Divers, c/o McKee's Sunken Treasure, Plantation Key, Florida.

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## CAROLINA COUNCIL OF SKIN DIVERS

By BOB WELLER  
1216 Perry St.  
Greensboro, N. C.

The Carolinas formally announced the formation of a new council at their first spearfishing championships on June 25th. A number of clubs in the Carolinas have been working together during the past year to form a Carolina Council of Skin Divers. In order to make it a council representative of the many clubs in both North and South Carolina, the announcement was delayed until the first major meeting of these clubs could be held and ideas exchanged.

Early in June the Greensboro Scuba Slobs and the Cherry Point Aqua Marines were elected to host the first spearfishing championships to be held on the outer banks at Cape Lookout. Enthusiasm of the clubs for a mutual organization provided a large turnout for this first meeting, and it was a general opinion that formation of the council was long overdue.

Briefing for the tournament was held Friday night at the Bud Dixon Motel in Morehead City. Chairman for this meeting was Ray Manieri, president of the Scuba Slobs. Bob Weller, of the Greensboro club, handled the tournament rules and regulations, and Sgt. Bill Borgman of the Aqua Marines gave a graphic description of the diving area. Later in the evening underwater movies of the Florida reefs were shown to the group. Officers of this new council will be elected at the next meeting tentatively scheduled for August 6th, at which time a formal constitution will be adopted. This meeting will coincide with the Invitational Spearfishing Championships to be held at that time. All clubs in the Carolinas not present at the first meeting are urged to contact Ray Manieri, 348 W. Lee St., Greensboro, N. C., for further information.

Of interest to clubs outside the Carolinas wishing to dive the outer banks area, a general information bulletin is being put together containing a list of motel accommodations, restaurants, air supply stations, charter boat captains, and suitable diving area locations. This bulletin can be obtained by writing to the Aqua Marines Skin Diving Club, c/o Special Services, Cherry Pt. MAS, Havelock, N. C.

### The Tournament

The two-hour tournament was held on the breakwater at Cape Lookout. The Scuba Slobs team of Ray Manieri, Bob Smith, and Bob Weller captured first place team trophies and will retain possession of the Carolina Council Perpetual Trophy for one year. The Asheboro Skin Divers team of Lee Kennan, Henry Kivett and Payne placed second. Third place trophies went to Gordon Maxwell, Dudley Rabb and Mann of the Tar Heel Sea Prowlers of Goldsboro. The Aqua Marines with Sgts. Bill Borgman, Howard Smith, and Mac McGuire placed fourth. Bob Weller, of the Greensboro Scuba Slobs also received the largest fish trophy and the high individual aggregate trophy.

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## NORTHEAST NOTES

By CAL CALHOUN

Northeast Council  
of Skin Diving Clubs  
P. O. Box 225  
Falmouth, Mass.



The Northeast Council has withdrawn its almost-completed air certification program in support of a similar program being sponsored and governed by the Retail Skin Diving Dealers Association of New England, Inc. It's always a pleasure to watch someone else do the work... and do it well.

There are two more Council sponsored contests scheduled for the remainder of the 1960 Tournament Season... the Christmas Island Meet, Lake Winnepesaukee, New Hampshire, and the Sebago Lake Meet on Sebago Lake, Maine, (exact dates to be announced.)

The Massachusetts Sea Lions, finishing first in the Massachusetts Congress Spearfishing Eliminations held on June 5th, went on to win the Northeast Council Championship

ship held June 12th. The winning team from the Maine Congress (Gallant, Craven and Gallant) lost to the Massachusetts Sea Lions team (Honoyski, Demski and Haynes) by one fish. The three hour contest was conducted from the Rockport Breakwater, Rockport, Massachusetts. A friendly (we thought) lobsterman was hired to take the two teams to the breakwater, which he did... but that was all that he did. The next three hours were spent in tension, as Comeau and myself searched about for another boat to retrieve the competitors.

At about the time that this is being read, I shall be on the road to the Convention... Dort Bigg, Gerald Comeau, Andy Konovalchik and I will be motoring down to Houston by way of Florida and the Gulf and should arrive in time for any and all events.

The Northeast Council of Skin Diving Clubs, Inc. is an area organization. At its beginning, the Northeast Council extended far into New Jersey... it was one of the first organizations of its type on the east coast. As time washed by, and the sport increased in popularity and participants, various states organized within themselves... the Northeast Council, in a perfectly normal and acceptable manner, slowly reduced in size. The 1960 season saw a revolutionary change take place... all of the clubs in the remaining states, represented by the Northeast Council, unanimously agreed to the adoption of separate state Congresses. Each of these Congresses was to conduct the sport's business in its respective state, and did. This was the intermediate step toward complete separate state jurisdiction of the sport, and separate state recognition on a national level.

My recommendations for next year have been made known... it is my desire that

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the Massachusetts clubs and the New Hampshire clubs follow the excellent example set by the Maine Congress of Diving Clubs . . . ratify a set of separate state Congress by-laws, elect a board of officers and start the 1961 season as separately strong State Congresses.

The name of the Northeast Council need not be filed away as an exceptional model of leadership etc. . . as a matter of fact, it need not be filed away at all. Still the symbol of efficiency in the New England area, the Northeast Council should serve as a friendly bond between sportsmen who embrace a standard diver and instructor certification program and a national publication, the Newsletter.

Essex County Sandsharks, Inc. — Reporter Ken Beck—The Essex County Sandsharks Diving Club, Inc. is an all teenage club. It is completely run and maintained by teenagers. We are a relatively new club and are members of both the fine Northeast Council and the Underwater Society of America. Our membership is about twenty-two.

Our officers are Dave Low, president, Ken Beck, vice-president, Fran Butler, secretary, and Ray Cashman, treasurer. Our motto, "Good Sportsmanship, Above and Below the Waters" states our purpose and feelings clearly.

## WASHINGTON . . .

Boeing Sea Horses—Seattle—Reporter Barbara Boling—Congratulations to the team of Miller, Scozzafave and Boling for placing third in the Sounders—Blackfish meet at Rosario Beach on June 12. Frank Boling also won the big fish trophy.

John Miller, Frank Boling and Bev Giese had their entry fees paid by the club to the YMCA Instructor's Course held in May. The final results are not yet known.

Our talented Bev Giese is busy painting the compressor cover with a Divers Flag and club emblem. The flag will be on the back of the cover and by the end of the year will have been seen by people all over the state.

Puget Sound Mudsharks—Reporter Paul J. Powers—As usual the Mudsharks have been well represented in area competition. The eliminations for council champions were won by John Tallman, Gary Keffler, and Dale Dean. The alternate member for the championship team was Pat McDaniels, who tried out for the team to represent the U.S. in the World Championships this August.

We have some new members who are hereby welcomed to the ranks: Tony Graham, Gerald Forest, and Hal Goldback.

In the way of club projects we have turned to anchor hunting. The latest find was a 300 lb. barnacle, anemone encrusted beauty at least 70 years old. Another ancient hook has been located that has been estimated at 1,500 lbs.

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Hours: 8:30-5:00 \$1.50

**FISHERMEN'S PIER**  
Underwater Wonderland of Crystal River, Fla.  
24 hr. Rental—Sales—Instruction \$1.25

**HARBOR BEACH TACKLE & MARINE**  
2240 SE 17th St. Causeway, Ft. Lauderdale  
Rentals, instructions, repairs, trips  
Soap/water lub compressor, open 7 days

**TARPOON SALES & SKIN DIVING CENTER**  
925 Palm Ave., Hialeah, Florida  
Mfg. of Tarpoon CO<sub>2</sub> Spearguns  
Retail, Wholesale, Rentals and Repairs \$1.25

**LAKELAND SKIN DIVING CENTER**  
715 Alicia Dr., Lakeland  
Sales, service, rentals, instruction  
Phone: MU 3-4244

**NEPTUNE'S GARDEN, INC.**  
Marathon, Florida  
Rentals, charts, supplies, air station  
Where Spearfishing is Legal!

**LEONARD'S SPORTING GOODS**  
Marathon Shores, Fla.  
Charters, instruction, rentals  
Diving equipment rental station \$1.50

**PHIL AMERO'S DIVE N'SKI**  
Air, Sales, Lessons, Boat Trips  
644 N.W. No. River Dr., Miami  
Phone: FR 3-6815

**SKIN DIVERS AQUARIUM, INC.**  
2701 Biscayne Blvd.  
Miami, Fla. Phone: FR 7-4789  
Open 7 days a week 8 a.m.-7 p.m. \$7.5



## UNDERWATER SPORTS, INC.

2219 Biscayne Blvd., Miami, Fla.  
Soap Lubricated Comp. Open 7 days a week  
Retail, Wholesale, Rentals & Trips \$1.75

## PALM BEACH SKIN DIVERS SUPPLY

623 South Olive  
West Palm Beach  
Complete stock, air, rentals, repairs \$1.75

## RACK DIV'NG AND SUPPLY

7603 So. Trail WAbash 7-1541  
Sarasota, Fla. Open 7 days a week  
Complete Ser., hydrostatic testing \$1.25

## SMITH SPORT STORE

332 Corey Ave.  
St. Petersburg Beach, Fla. Phone 22-3803  
Air—Lessons—Rentals—Repairs—Sales—Trips

## HOLLY'S SPORTING GOODS

1235 Orange Ave., Winter Park, Fla.  
Florida's Diving Eqp't. Hdqrs.,  
Twin Ingersoll-Rand Compressors Refills \$1.50

## ILLINOIS

### ACE AQUA STORE

4739 No. Broadway, Chicago  
Hours: Mon. & Thurs. 12-9;  
Tues., Wed., Fri. & Sat. 9-6 \$2.00

### AQUA HOBBY DEN

8542 S. Racine, Chicago  
Phone ST 3-0130  
Hours: 9-7; Fri. 9-9; Sun. 8-11 a.m.

### CHARGERS AIR STATION

3816 N. Octavia TU 9-9205  
Chicago, Illinois \$1.25

### CHICAGO OXYGEN THERAPY SERVICE

1641 West Irving Park Road  
Chicago 13, Ill.  
Hours: 9-9 \$2.00

### DIVEMASTER

5643 W. 63rd Place, Chicago 38  
Mon.-Thurs. 8-9; Tues., Wed. & Fri. 8-6;  
Saturday 9-6 \$2.00

### ERICKSON POOL SUPPLIES, INC.

3734 N. Cicero SPring 7-6530  
Chicago, Illinois  
Hours: 9-9 Mon.-Fri.; Sat. 9-6 \$1.50

### SKET MARINE DIVING CENTER, INC.

210 W. Chicago Ave., Chicago  
Phone: DE 7-4342  
Hours: 9:30-5 \$2.00

### SKIN & SCUBA DIVING SHOP

3853 W. North Ave.  
Chicago, Illinois SP 2-5164  
Sales, service, rentals, instructors

### GREAT LAKES DIVERS SUPPLY

10745 S. Princess St. (6300 West)  
Chicago Ridge—Lessons, Sales  
Counseling for Beginners, Boat Charters GA 5-0658

### TUCK'S WATERSPORT STORE

4414 N. Narragansett, Chicago  
Water pumped air  
7 days, Mobile Rix \$2.00

### SKET MARINE DIVING CENTER, INC.

Lessons, rentals, sales, service  
1945 Maple Street, Evanston, Ill.  
University 9-9830. 24 hr. service \$2.00

### NORTHWEST AQUATICS

3552 River Road GL 5-4661  
Franklin Park, Illinois  
Ski, Skin & Scuba Supplies

### DAN'S DIVING DEN

Instructions, sales & rentals  
24 Hr. Service DEWey 5-1341  
16883 S. Crane, Hazelcrest, Ill.

### UNDERWATER SALES & SERVICE

520 East Ogden Ave., Naperville, Ill.  
24 hr. mobile air service, club rates  
Phone: ELmwood 5-3680

### NEPTUNE DIVERS SUPPLY

5408 W. 95th St., Oak Lawn, Ill.  
Sales, Service, Rental NE 6-0015  
Hours: 9-10 p.m.; Sun. till 3 p.m.

## INDIANA

### SPORTSWORLD

500 Broadway TU 3-2925  
Gary, Indiana  
9-5:30 daily, 9-9 Mon., Thurs., Fri.

### HANSEN'S DIVERS SUPPLY

3750 Ridge Rd., Highland, Ind.  
Rix-Water-Lubricated-Compressor  
Hrs.: 10-6; Mon., Thurs., Fri. 10-9; Sun. 9-11 a.m.

### DIVERS' SUPPLY COMPANY

3609 Lorraine Rd (Off 37A N.E.) CL 1-0110  
Indianapolis 5 Min \$1.50  
Comp. Skin Diving Eqp't., Instr., Cert. Air

## IOWA

### AQUA SPORTS

Everything for the Skin Diver  
4026 Jersey Ridge \$1.50  
Davenport, Iowa

## MAINE

### DAKIN SPORTING GOODS CO.

28 Broad St., Bangor, Maine Bangor 6411  
Complete Skin Diving Equipment  
Refills while you wait

### UNDERSEA ENTERPRISES, INC.

69 Government St., Kittery, Maine  
Serving Maine & New Hampshire ID 9-9803  
Open every night \$1.25

### CONGRESS HARDWARE & PAINT (TOMMY'S)

273 Congress St., Portland, Maine  
Complete line skin diving eqpt. SP 2-5357  
Sales, service, rentals, lessons 10 fills \$10.00

### HARVEY'S SPEED & DIVING CENTER

473 Stevens Ave.  
Portland, Me. SPruce 2-6467—SPruce 2-5532  
24 Hour Service \$1.50

## MARYLAND

### DIVER'S DEN

8105 Harford Road  
Baltimore 14, Maryland (Parkville)  
Phone: NOrthfield 8-8666 & 8-7382 \$1.50

## MASSACHUSETTS

### BELMONT BOAT COMPANY

402-404 Trapelo Rd., Belmont IV 4-5246  
Diver Jim's Scuba Air Station  
Buy 3 air fills, get 1 free \$1.50 ea.

### NEW ENGLAND DIVERS, INC.

42 Water St.  
Beverly, Mass. WA 2-6951  
7 days a week \$1.25

### JAMES BLISS & CO., INC.

342 Atlantic Ave.  
Boston 10, Mass. \$1.50  
"Sales and Service"

### MIDDLESEX AQUATIC CENTER

444 Salem St., Medford  
Sales, Rental, Repair, Air Cards EX 5-9873  
7 days a week, parking in rear \$1.50

### HIGHLAND TELEVISION CO.

70 Main St., Melrose. Complete Eqp't.  
Hours: 9-6 Mon., Tues., Sat.; 9-9 Thurs., Fri.  
Closed Wed., Sun. 5 Min. Fill \$1.00

### SO-SHO-NE, INC.

246 Bridge St., Rt. 3A, N. Weymouth  
Open 7 days a week Refill \$1.00  
Phone ED 7-3186

### COLONIAL MARINE, INC.

Route 1, Norwood, Mass. NO 7-1100  
(At airport entrance) \$1.50  
Complete line Skin Diving Eqp't. and repairs

### THE REEF

120 Commercial St., Provincetown, Cape Cod  
Air—Lessons—Rentals—Sales—Trips  
Phone 264—7 days—Year Round

### ANDY'S AQUA SHOP

323 Bridge Street, Salem, Mass. 10 fills \$7.50  
Rentals, Sales, Instr., Trips & Repairs PI 4-8813  
7 day service. Worthington V4A3 Compressor

### SKIN DIVING SUPPLY CO.

Route 6 & Main, Wareham  
Sales - Rentals - Repairs \$1.50  
Wholesale Distributors — Open 7 days

### DIVERS WORLD, INC.

751 Main, Rt. 38, Winchester, Mass.  
Instruction—Sales—Service \$1.50  
5 Minute Refills—Light Salvage

## MICHIGAN

### SEAWAY DIVING & EQPT. CO.

5725 S. Telegraph Rd.  
Dearborn 9, Mich. 70 cu. ft. \$1.50  
CR 8-6750

### SPORTS OUTLET

5279 Schoeler, Dearborn LU 2-1892  
2280 Woodward, Ferndale LI 5-4884  
124 W. 4th St., Royal Oak LI 3-2630

### NEPTUNE SPORTS STORE

4222 Woodward Ave. TE 1-3800  
Detroit, Michigan \$1.00

### SKIN DIVING & SKI SHOP, INC.

18270 Grand River Ave. VE 7-1995  
Detroit 23, Mich. Hours: 10-9 Daily, Sat. 10-6 \$1.00

### DAN WOOD SKIN DIVING EQUIPMENT

559 East Woodland  
Ferndale 20, Michigan  
Air Fills Any Time

## DIVER'S DEN OF FLINT

4505 Detroit St., Flint SU 5-8232  
Sales—Rentals—Instruction \$1.50  
Open 7 days

## DIVERS SUPPLY, INC.

G-4142 Fenton Rd. near So. Plaza CE 8-3906  
"Flint Michigan's Largest"  
8 a.m. to 10 p.m. 7 days \$1.50

## GRAND RAPIDS DIVERS SUPPLY CO.

502 Carrier, N.E. RI 2-2686  
Grand Rapids 5, Michigan \$1.50

## PINE LAKE INN

3599 Orchard Lake Rd., Orchard Lake FE 5-5375  
Complete Line of Diving Equipment

## PORT HURON TOWING

1700 Hancock St., Port Huron YU 2-9538  
Lake Huron-Blue Water Area  
7 days—24 hours \$1.50

## ST. CLAIR DIVERS & MARINE SALES CO.

24530 Jefferson Ave. PRescott 7-9852  
St. Clair Shores, Mich. \$1.50

## AQUATIC & DIVING EQUIPMENT

2869 Pontiac Trail  
Walled Lake, Mich. Telephone MA 4-1417

## J. M. SPORTING GOODS

Everything for the Skin Diver  
1079 Fort St. AV 4-3212  
Wyandotte, Mich. \$1.50

## MINNESOTA

### GILMORE'S AQUA SHOP

724 East First St. Phone 1420-X  
Fairmont, Minn.  
Complete line of scuba equipment

### TRAVIS DIVING COMPANY

16809 North Scenic Lane  
Hopkins, Minnesota \$1.50  
All hours, phone West 8-4821

### PAULSON CO., DIVERS SUPPLY

2935 Newton Ave. N., Minneapolis 11  
24 Hr. Yr. Round sales service, emergency  
Phone JA 1-6684 \$1.50

### JACK THE FROGMAN CO.

4251 Nicollet Ave., So. 24 Hr. Service  
Minneapolis 9, Minn. \$1.50  
Air filtered four times

### MIDWEST SKIN DIVING SUPPLY COMPANY

405 South Wabasha Street (at Concord)  
St. Paul, Minnesota \$1.50  
CA 4-7155 after hours call CA 5-0645

### ST. CLOUD SKIN DIVER CO.

1703 3rd St. No. \$1.50  
St. Cloud BL 2-1604  
Hours: 8 a.m.-9 p.m., Sun. 9-12 noon.

## MISSOURI

### DAN'S DIVERS DEN

Hiway Jct 76 & 165, Branson ED 4-5085  
Table Rock, Bulls Shoals & Taneycomo  
U.S. Divers Eqp't. Pure Air & Banks \$1.50

### INLAND UNDERWATER SALVAGE & DIVERS SUPPLY

Wholesale & Retail  
9803 Wilson Rd., Kansas City, Mo.  
Phone: CL 4-7971 - CL 4-8500

### RAY GEORGE CO.

3456 South Grand Blvd.  
St. Louis, Mo. PR 6-4568  
Diving Eqp't.—Boats—Evinrude Motors

## NEW JERSEY

### BOB KISLIN'S SPORTING GOODS

Everything for the skin diver at lowest prices.  
701 Main St. PRespect 4-0900  
Asbury Park, New Jersey Refill \$1.00

### KOZEFF'S

3rd and Bay Avenues  
Beach Haven, N. J. \$1.50  
Full line of skin diving equipment

### GUY'S SPORT SHOP

A complete line for skin divers—rentals  
705 Ninth Ave. MU 1-0089  
Belmar, N. J. Single Refill \$1.50

### CALDWELL SPORT SHOP, INC.

356 Bloomfield Ave., Caldwell, N. J. CA 6-2988  
"In Stock—A Complete Line of  
Skin Diving Eqp't." \$1.50

### SKIN DIVERS SUPPLY & SALVAGE CO.

326 Bloy St., Hillsdale, N. J. MUrdock 7-2777  
Complete sales, service and rentals  
Hrs.: Mon.-Sat. 9-6:30; Wed & Fri. till 10:30 p.m.

### UNITY DIVERS SERVICE

251 Monticello Ave. \$1.50  
Jersey City HE 3-9204  
Hours: 11-9 daily, except Sun. & Wed.

### THE BOTTOM SHOP, INC.

229 W. Front St., Keyport, N. J.  
Hours: 10-9 Daily; 9-1 Sun.  
Member N. J. Assoc. of Dive Shops

SI 5-8233  
\$1.50

CE 8-3906  
\$1.50

RI 2-2685  
\$1.50

FE 5-5375  
\$1.50

YU 2-9538  
\$1.50

Phone 1420X

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**GARDEN STATE SWIMMING POOL & SUPPLY**  
324 Main St., Madison  
Frontier 7-4400  
Rentals & Supplies  
10 fills \$12.00  
Hours: 8-9 M-F, Sat. 9-6 July  
Single \$1.50

**M.B.M. DIVING SUPPLIES**  
188 Main St., Metuchen, N. J.  
LI 8-6841  
Refills & Supplies

**KELLY'S SKIN DIVERS SHOP**  
43 Chatham St., near Watchung Ave.  
North Plainfield, N.J.  
Hours: Daily 11-10; Sat. 10-10; Sun. 9-12

**RAMSEY OUTDOOR STORE, INC.**  
Route 17, Paramus, N. J.  
Single tank Air Pass \$10.00 per season  
Open 10 a.m. to 10 p.m.—single refill \$1.00

**DIVERS LOCKER**  
321 Smith St.  
VA 6-3875  
Perth Amboy, N. J.  
10 Fills \$10.00  
Hours: 9-9 daily; 9-12 Sun.  
Single Fill \$1.25

**4 DIVERS, INC.**  
56 Broadway  
Point Pleasant Beach, N. J.  
Sales—Service—Rentals & Air

**UNDERWATER SPORTS OF N.J.**  
A complete line for skin divers  
Hours 10-10  
Route 17, Rochelle Park, N.J.

**ROCKAWAY SALES CO.**  
Route 46  
Rockaway, N. J.  
10 a.m.-10 p.m.  
\$1.50

**BOWCRAFT SPORT SHOP**  
Route 22, Scotch Plains, N.J.  
Hours: 9-9  
Twelve refills \$15, single refill \$1.50

## NEW YORK

**MID-ISLAND FIRE EQPT. SERVICE**  
11 So. Grand Ave.  
Baldwin, N. Y.  
A complete line for skin divers  
BA 3-8246

**INDEPENDENT SUPPLY CO.**  
268 E. 142 St., Bronx, N.Y.  
Minutes from Tri-Boro Bridge  
Suba filled while you wait  
MO 5-3611

**COUGAR SPORTS, INC.**  
3470 Webster Ave. near Gun Hill Rd.  
Bronx 67, N.Y.  
Mon-Fri. 1 p.m.-10 p.m.; Sat. 9 a.m.-10 p.m.  
\$1.00

**AQUA-LAND**  
244 Brighton Beach Ave.  
Brooklyn, N. Y.  
Immediate refills, open every day  
DEwey 2-1040

**HARVEY'S SPORTING GOODS, INC.**  
2003 Emmons Avenue  
Brooklyn 35, N.Y.  
\$7.50  
Open 7 days a week—Immediate refills  
SHeepshead 3-0054

**AQUA-DIVERS INC. SCUBA SCHOOL**  
Little Nk., Rd., 1 blk. No. 25A  
Centerport, L.I.  
7-day, 24-hour rental, sales & salvage  
AN 1-2755

**AQUA-SYSTEMS SERVICE CO.**  
28 Nastrand St., Farmingdale, L.I., N. Y.  
We never close  
Phone Chaple 9-4427  
Diving Equipment.

**3 & B SPORTING GOODS CO., INC.**  
162-02 Northern Blvd. IN 1-5461  
Flushing 58, N.Y.  
Mon-Thurs. 8 p.m., Fri. 9 p.m.; Sat. 7 p.m.  
\$1.00

**SPORTWORLD**  
138-10 Northern Blvd., Flushing, N. Y.  
'North shore's largest skin diving center'  
Refill while you wait  
FL 3-1803

**DANZIGER**  
70 So. Main St.  
Freeport, L.I., N.Y.  
Equipment sales & refills

**HEMPSTEAD OUTDOOR STORE**  
5 North Franklin Street  
Hempstead, L.I., N.Y.  
IV 6-9851  
Filled while you wait  
10 fills for \$10.00

**HUNTINGTON SPORTS SHOP, INC.**  
344 New York Ave.  
Huntington, N.Y.

**LOU'S MOBILE AIR STATION**  
8 Dwight Cr., Islip, N.Y.  
7 days—all hours  
Pure-Dry air guaranteed  
JU 1-4996

**CENTRAL SKIN DIVING JAMAICA-BROOKLYN**  
160-09 Jamaica Ave., Jamaica, N. Y.  
RE 9-5772  
1007 Utica Ave., Brooklyn, N.Y.  
DI 5-1070  
Finest 5 minute fill—Free lessons in our pool

**RICHARDS AQUA-LUNG CENTER**  
233 W. 42nd St.  
New York 36, New York  
Hrs. 9 a.m. to 10 p.m.

**LARKIN CAMERA & SPORT SHOP**  
7 Bridge St., Plattsburgh, N. Y.  
On Historic Lake Champlain  
Hours: Daily 9-10; Sun. 10-7  
JO 3-5762

## MAC SNYDER'S ARMY & NAVY STORE

136 Surf Ave.  
Port Jefferson, L.I., New York  
PO 8-1592. Open Sunday July & August  
\$1.50

**ALL AMERICAN SCUBA SUPPLY, INC.**  
260 W. 29 St., N.Y.C. 1, N.Y. CH 4-1190  
for all your skin diving needs Mon. to Sat. 9-5.  
Tanks filled to midnight (by appt.)

**BOB & LEE'S HOBBY & SKIN DIVING CENTER**  
111-05 Lefferts Blvd., Richmond Hill 20, N. Y.  
Everything for the diver, sales, service,  
rentals  
phone Virginia 8-4321

**GRODY'S LUGGAGE & SPORT SHOP**  
342 South Salina Street  
Syracuse, N.Y.  
Daily 9:30-5:30, Mon. & Fri. to 9 p.m.  
10c per 100≠

**NAUM BROTHERS SPORTING GOODS**  
Marine—Skin Diving—Authorized Repairs  
2373 Ridge Rd., W. Rochester  
Hours: Daily 8-9, Sat. 8-6  
\$1.50

## OHIO

**OHIO SKIN DIVERS HDQRS., INC.**  
Sportsman Lake, Cedarville, Ohio  
824 N. Bend, Cincinnati  
Refills—Sales—Instruction  
SO 6-3041  
Klrby 1-4200

**ACE AIR COMPRESSOR CO.**  
1647 Eddy Rd.  
Cleveland, Ohio  
Refills—Sales—Instructions  
Shop CL 1-3011  
Nights RE 1-6014

**THE NEWMAN STERN CO.—SOUTH GATE**  
5365 Warrensville Center at Libby Rd.  
Cleveland, Ohio  
Everything for the skin diver

**ELYRIA DIVERS SUPPLY**  
336 Prospect St.  
Elyria, Ohio  
Sales, Rentals, Refills  
Phone FA 2-3158  
\$1.50

**LONGORIA'S AQUA SHOP**  
Headquarters for Lorain Skin Diving Inc.  
30th and Grove  
Lorain, Ohio—24-hr. service  
BR 7-5637  
\$1.50

**DON LEA JR.'S SKIN DIVE CENTER**  
4570 Monroe St., Toledo  
Cert. Instr. free with ea. lung purchase  
\$15 per season—50c per 70 cu. ft. fill  
GR 4-1273

## OKLAHOMA

**FIRE APPLIANCE & SUPPLY CO.**  
1310 N. York, Muskogee, Okla.  
Hrs. daily 8-5; Sat. 8-noon  
MU 7-8530  
\$2.00

**BILL STORY FIRE & SAFETY CO.**  
1521 West Reno  
Oklahoma City  
Hours: 8-5; 8-noon Saturday  
CE 5-5364  
\$2.00

## OREGON

**DIVERS AIR & EQUIPMENT CO.**  
4867 N.E. Union Ave., Portland  
Fills, Rentals, Suit Mfr.  
10-7, 7 days, April thru Sept.  
\$7.50

## PENNSYLVANIA

**WORTHINGTON SALES & SERVICE**  
1720 Old York Rd.  
Abington, Penna.  
Phone OL 9-1376  
\$1.75

**GOLDSBORO BOAT HOUSE**  
Box 41, Etners, Penna.  
Hours: 9-9; Thurs. 9-2; Sun. 9-6  
Boats, Motors, Diving Equipment  
\$1.50

**ADVANCED AQUA DIVERS**  
Division of Advanced Fire Ept. Co. Inc.  
Rt. 30 West, Greensburg, Pa.  
Phone Temple 4-6550.

**POLLY BROS.**  
7th & Market Sts.  
Phila. 6, Pa.  
Telephone Walnut 2-6565  
\$1.75

## TEXAS

**BEER'S MARINE SUPPLY**  
1209 W. 6th  
Amarillo, Texas  
Air Refills, Complete Sales, Serv., Inst.  
DR 2-4368

**AQUALAND**  
1626 N. Industrial Blvd.  
Dallas 7, Texas  
Refills, sales, rental, instructions

**NATIONAL WELDING SUPPLY COMPANY**  
DOWNTOWN—5 blks. W. of COURTHOUSE  
615 W. Belknap, Fort Worth, ED 6-7145.  
Year-round Refills—Sales Service

## WASHINGTON, D. C.

**SPORT CENTER**  
8th and D St. N.W.  
Washington, D. C.  
Everything for the skin diver  
ST 3-0505

## WASHINGTON

**DIVERS HUT**  
5120 Kitsap Way, Bremerton  
(On Silverdale Highway)  
Open 7 Days  
ES 7-6991  
Air \$1.25

**PUGET SOUND DIVERS, INC.**  
2520 Westlake No. Seattle 9  
Sales & Rentals  
Hours: 8:30-5:30  
Emergency: PR 6-4428  
AT 3-8535  
\$1.25

**SPORTS CREEL, INC.**  
12312 E. Sprague  
Opportunity (suburban Spokane)  
Hours: 9-6, Fri. till 9, Sun. 8-9 a.m.  
WA 4-2330  
\$1.25

**DIVERS AIR & SUPPLY**  
4137 California Ave., Seattle, Wn.  
Hrs.: 9-6; Fri. & Sat. 9 p.m. WE 5-7055  
Compressor Rentals, Emergency CH 2-1632—\$1.25

**SEATTLE SKIN DIVING SUPPLIES**  
1657 Harbor Ave. S.W., Seattle  
Hours: 8-6 7 days a week  
Emergency phones: WE 5-5811 & WE 5-5794  
\$1.25

## WISCONSIN

**BROOKFIELD SKIN DIVING SUPPLY, SCHOOL**  
270 No. Moorland Rd., Brookfield, Wis.  
Hours: Mon-Sun. 9-9; closed Tues.  
Equipment - Rentals - Instruction  
Air \$2.00

## BERMUDA

**BELMONT SOUS-MARIN**  
BELMONT MANOR HOTEL  
Warwick, Bermuda  
Professional Instruction  
Tank fill \$2.00

## JAMAICA, B.W.I.

**THE SEA CRABS DIVING SCHOOL**  
Chatham Hotel, Montego Bay  
Professional Inst. (pool) Air  
Underwater Tours Daily Except Sun.  
\$2.00

## GRAND CAYMAN, B.W.I.

**SPEAR-KING AQUA SPORTS**  
Capt. Tom Hubbell  
Pro Instr., Underwater Tours Daily  
Grand Cayman Island  
Air \$2.00

## CANADA

**BOB'S AIR SERVICE**  
265 Kenilworth Ave. North  
Hamilton, Ont., Canada  
Equipment—Rentals—Instruction  
LI 9-1043

**LLOYD SHALES HOBBY SUPPLIES**  
208 Division St.  
Kingston, Ontario  
Equipment Sales—Instruction—Demonstration  
LI 8-8427

**SUPREME DIVERS**  
160 King St. East  
Toronto, Ont., Canada  
Instruction—Rentals—Sales—Repairs  
EM 4-9715  
EM 4-2911  
\$1.50

## WESTON AQUATICS & SPORTS

1758 Weston Road  
Weston, Ont.  
Equipment and Rentals  
CH 1-9139

## ISLAND DIVERS LTD.

315A Wesley St., Nanaimo, B.C.  
Phone: SK 4-8561—Eves. SK 4-8517  
Equipment—Rentals—Instructions  
Air \$1.25

## THE DONS DIVING

875 Kingsway, Vancouver 2, B. C.  
Free instruction in our heated pool  
Hours: 9-9 daily  
TR 6-6011

## MEXICO

**AQUA MUNDO**  
Costera M. Aleman 98-6  
Acapulco, Gro., Mexico  
Instruction, Rentals, Sales & Air  
\$1.50

**DEPORTES MARTIMOS**  
Dick Adcock  
Hotel Perla, La Paz, B. C., Mexico  
Boats, Tanks, Refills, Rentals

**BUZOS DEL CARIBE S. A.**  
Hotel Zazil-Ho, Isla Mujeres, Q. Roo, Mexico  
Boats, tanks, guns, wrecks  
7 days a week  
Filtered air \$2.00

## PUERTO RICO

**THE ORIGINAL DON'S AQUATIC CENTER**  
Sales-Repairs-Rentals-Tanks filled  
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**NEW JERSEY COUNCIL OF DIVING CLUBS**

Central Branch YMCA  
125 Main Street  
East Orange, N. J.

By BATTIST BRUNO  
48 Sheridan Ave.  
Metuchen, N.J.

Some of the members of the Reaquanauts are traveling up to Lake Hopatcong to take part in a demonstration with the local Power Boat Squadron. Ed Perison and Earl Gager will work with a helicopter from the Picittanney arsenal in a rescue operation.

Bill Brown of the Reaquanauts has just returned from a Florida trip where he did some diving in the Crystal River. Bill also dived in the Gulf of Mexico where he did some spearfishing.

The Bayonne Barnacles will be taking a trip to Lake George, New York, to do some underwater photography and exploration. The Barnacles have started a scuba course exclusively for female members. Needless to say they are not having any difficulty in finding instructors for this particular course.

Herman Prinz of the New Jersey Underwater Sportsman has started off the season with a nice 17 pound striped bass. Sam Watson of the Underwater Fishermen of

New Jersey has about five bass to his credit thus far this year. George Simons of the same club is running close behind Sam with three bass.

The Metuchen Underwater Divers Inc. had as guest speaker at their last meeting Bob Douglass, an attorney from Newark. He spoke on the legal aspects of skin diving in the state.

There have been two dive shops opened in the Point Pleasant area. Donald J. Brennan has taken over the old spot held by Bob Franklin and George Spiegel along with his partners has opened the Four Divers Shop on Broadway.

The Council is now in the process of mailing a Council letter and listing of 53 known clubs to all 53 of these clubs.

Remember to stay out of Shark River inlet from June 1 to after Labor Day in cooperation with the U. S. Coast Guard.

Late news has it that Sam Watson of the Underwater Fishermen of New Jersey recently speared three striped bass in the forty pound class, in one day's work. Also George Simons of the U.F.N.J. speared a 45 pound striped bass, a real beauty. Bill Skripka speared his first striped bass of the season.

Norman Wiseman, of the Metuchen Underwater Divers Inc., and several members of that club made a trip to Lake Wallenpaupack, Pa., where they stayed at member Pete Maculla's cabin. They enjoyed some good scuba diving and took underwater photos.

Let's hear from you New Jersey clubs. Send your typed reports to the address above prior to the 10th of the month for inclusion in SDM's New Jersey news.

The newly formed New Jersey association of dive shops recently held its fifth meeting at which time eight shops were made charter members. Some of the reasons

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August 1960

that the association was formed were to  
promote safety, service, dependability and  
to be able to inform divers in the proper  
and safe use of all types of diving equip-  
ment. The association feels that through  
an organization of this type there will be  
more efficient communications between  
shops and any new ideas on diving can be  
exchanged more quickly.

They have had some inquiries from near-  
by states as to their progress. One of their  
future efforts will be the setting up of  
tank testing facilities, hydrostatically and  
steam cleaning, etc. Anyone interested in  
the association contact the Bottom Shop,  
229 West Front St., Keyport, New Jersey.

**Pleasant Dolphins — Reporter Diane  
Shelley**—We are a recently organized club  
and have about 25 members. Our officers  
are: president Bob Clayton, vice-president  
George Spiegel, corresponding secretary  
Diane Shelley, recording secretary Larry  
Bissey, treasurer Bill Kraemer and safety  
officer Walt Cleason. Some of our more  
experienced diving members are handling  
the training program. George Spiegel and  
Walt Cleason are also members of the Point  
Pleasant underwater and rescue unit.

Our big job of the near future is plan-  
ning and preparing a float for the coming  
Big Sea Day to be held here on August  
13th. We also have some wreck trips  
planned for the future.

We meet every Tuesday at 7:30 p.m. at  
the Four Divers Shop, 56 Broadway, Point  
Pleasant. We welcome anyone in the area  
who would be interested in joining our  
club. Please address any correspondence  
to Diane Shelley, 1141 Bradford Drive,  
Point Pleasant, N. J.

**Piranhas Diving Assn.—Reporter Stanley  
Poslusny**—The association had its first  
annual family picnic and dive in June  
at the Beachcomber Beach Club in Long  
Branch, N. J. Our thanks to member Stan  
Tigounis, owner of the Beachcomber, for  
use of the facilities.

The N. J. Aqua Bats have invited the  
Piranhas to Lake George, N. Y., August  
7 to 21. Members of both clubs will have  
use of the Aqua Bats' boat and some ex-  
cellent diving is forecast for the trip.

If any unattached divers in the Hacken-  
sack area are interested in our association  
they can contact us through this reporter  
at 807 Asbury Street, New Milford, New  
Jersey.

MASSACHUSETTS...

**Berkshire Skin Divers — Pittsfield — Re-  
porter C. M. Howard**—Our officers are:  
Thomas Mix, president; Edward Brutsch,  
vice-president; Harold Robitaille, secretary;  
Milton Musbach, treasurer; and Charles  
Howard, publicity chairman.

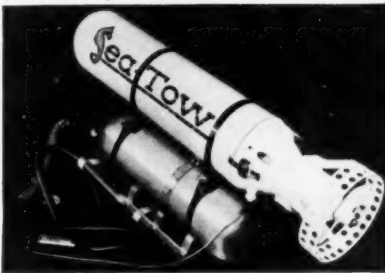
We meet the first and third Tuesday of  
each month at Howard Johnson's Rest-  
aurant on Route 20, Pittsfield. Divers in our  
area this summer are invited to join. Con-  
tact us by writing the reporter at 42 Edin-  
gton Avenue, Pittsfield.

MISSOURI...

**White River Lakes Skin Divers Associ-  
ation—Reporter Dan W. Clark**—We are  
a new club with promises of growing quite  
large as the vicinity is a natural for diving.  
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various clubs in the state spearfishing has  
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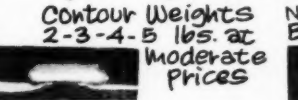
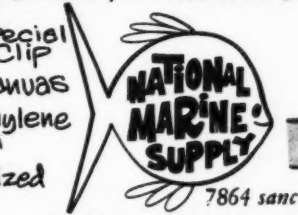
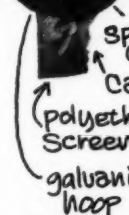
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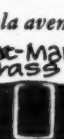
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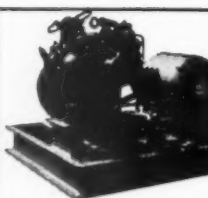


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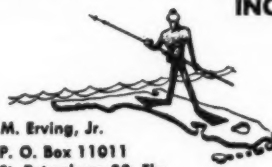
## FLORIDA

### SKIN DIVERS ASSOC., INC.

By

John M. Erving, Jr.

P. O. Box 11011  
St. Petersburg 33, Fla.



The big news coming out of Florida this month is, of course, about the 4th Annual Southern Open Skin Diving Derby to be held August 26-27-28 in the Marathon area. With more than \$4,000 in prizes gathered by the prize committee, it promises to top all previous "opens" in both loot and participation.

Topping the prize list will be an all-expense paid trip to the Netherland Antilles where the Southern Open winner will serve as one member of the U.S. Team in the 3rd Annual Netherland Antilles Spearfishing and Trolling Tournament. Sponsored by the Tourist Bureau, a branch of the Dutch Government, with cooperation from KLM Royal Dutch Airlines, this popular meet is expected to attract teams from throughout the western hemisphere. According to advance information received from the Islands, teams have been invited from Aruba, Bonaire, Columbia, Cuba, Curacao, Dominican Republic, Guadeloupe, Haiti, St. Martin, Martinique, Republic of Panama, Panama Canal Zone, Puerto Rico, the Virgin Islands, U.S.A., Venezuela and the West Indian Federation.

In addition to the official teams from each of the above listed areas, other three-man teams may participate for the daily prizes. Boats will be provided for the official teams and guest teams may charter other boats at moderate cost. Other teams in the United States may secure information about entering the Netherlands Antilles Tournament by writing to ISA, P.O. Box 5006, Gulfport, Florida. Dates for this are November 3-4-5-6.

We are on the threshold of getting inland spearfishing here in some of our 100-foot visibility fresh waterways. Although it will be limited to the 'trash fish,' it marks the first major advancement in recognizing the underwater sportsman as an important segment of Florida society, and a pretty important part of the tourist business coming into the state. This will be decided at the July meeting of the State Game and Fresh Water Fish Commission.

Rating high on things to do that should really be of interest to divers everywhere is the information of a company called Florida Diving Tours. Headed by Ben Waller and Paul Adamek at Silver Springs, they specialize in guided tours to a number of central Florida's most fantastic, undeveloped springs. Unlike our salt water areas here, the springs maintain a constant temperature and visibility throughout the year and offer some of the most challenging and exciting experiences beneath the surface. But—Beware. Spring diving, for the most part, is not for the novice or the diver strange to the environment of underwater caves and caverns. It takes a good diver and a good guide to complete the picture. If this sounds good to you, contact these people by calling Ocala, Florida, MArion 9-5861.

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## LOUISIANA . . .

Dixie Divers — Metairie — Reporter  
Marcie Alba—Members of the Dixie Divers  
Club have been enjoying some of the most  
spectacular trips into the Gulf of Mexico  
ever experienced in the history of diving in  
this area.

Pat Lambert, J. J. Jones and Pete Fitz-  
morris made one trip which resulted in six  
prize fish. Pat Lambert landed two snapper  
of 21 and 20 lbs. Pete went cuda crazy and  
brought in two weighing 30 and 31 lbs. J.  
J. Jones speared the first cobia of the sea-  
son. They weighed 36 and 29 lbs.

Roland Riviere, Jr., DeWitt Loftin, Roy  
Smith and one lone Bajaos, Dan Nelson,  
spent a weekend diving at the deep rigs and  
came in loaded with some fabulous fish. De  
Witt brought in a 19 lb. red snapper, Roy  
landed a 47 lb. amberjack and a 19 lb.  
snapper. Dan Nelson landed two amber-  
jack which weighed 61 lbs. and 77 lbs. The  
27 pounder is a record amberjack taken  
by spearfishermen. Roland Riviere, Sr., was  
line fishing off the back of the "Skin Diver"  
and caught three nice sized cobia. He was  
determined to take home a nice big snapper,  
but had no luck with line fishing off the  
boat, so he donned his diving gear and  
hopped over the side and soon returned  
with a couple of nice snapper, one going  
18 lbs.

Dick Alba and Pat Lambert made a trip  
to the vicinity of the Caminada Structures  
where Dick speared and landed two cobia  
to take first and second place in the N.O.  
Contest. Pat and Dick also brought in sev-  
eral good eating-sized snappers. Incidentally  
the 58 pounder which Dick speared is the  
second largest cobia ever taken in these  
waters. The other cobia weighed 45 lbs. and  
pushed J. J. Jones's 36 pounder to third  
place, but the Dixie Divers still control the  
first, second and third place cobia division  
in the contest.

J. J. Jones and Pete Fitzmorris, accom-  
panied by three Bajaos were a big part of  
a most successful trip. Both Pete and J. J.  
landed their first big jewfish in crystal clear  
blue water where the bottom was visible  
from the surface. J. J. Jones enjoyed his  
first ride through the rigs as he fought a  
320 lb. jewfish for 20 minutes. Pete landed  
a 125 pounder at the Virgin Rig where  
they were diving. The five divers on the  
trip got together and counted 32 jewfish  
under the platform, with the smallest ap-  
pearing to be around a hundred pounds.

Observations by Alba, Lambert, Jones,  
and Riviere have lead us to believe that a  
new species of barracuda is infiltrating our  
waters. Students of fish life in this area be-  
lieve them to be "Reef" cuda or "Lost"  
cuda. The possibility that these fish may  
have come from the Pacific Coast and  
around the Horn has been expressed. These  
barracuda seem to be much smaller in size,  
but the numbers in which they travel is  
considerable. ➤

## ALABAMA . . .

Ten Fathoms Club — Huntsville — Re-  
porter Hugh Vandegrift—At our organi-  
zational meeting literature and diving  
equipment were exhibited and plans made  
for further diving activities as a club. The  
first practice and training session was in  
May and we meet on Thursdays at Blue  
Springs Park Pool at 7 p.m. ➤

## ILLINOIS . . .

Illinois Valley Scuba Divers—Canton—  
Reporter Lucille Henderson—Members of  
the club have cleaned Canton Lake and the  
beach area of debris to provide safe swim-  
ming facilities for the area residents.

We do a lot of our diving at Liverpool  
Gravel Pit and were joined recently by the  
Peoria Diving Club. ➤



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SKIN DIVER—August 1960



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**DIVER**—Graduating from school of commercial deep sea diving. Will be available in August. Contact Richard R. Miller, 193 Montecito, Oakland, California, U.S.A.

## VERMONT . . .

**Central Vermont Skin Divers**—Montpelier—Reporter Dave Sunderland—There are only two clubs in this state, ours and the Champlain Reef Runners of Burlington.

Lake Champlain is the biggest and perhaps the best area for diving in Vermont. However, there are several smaller lakes north of Montpelier with an average depth of 90 feet of crystal clear, spring fed water. Lake Champlain was the battleground for quite a bit of naval action and therefore there are many areas where relics of both the Revolutionary War and War of 1812 can be found. The deepest point in Lake Champlain is at Shelburne Harbor where the depth is 400 feet. Another interesting diving area is Lake Morey near Fairlee, where the first steamboat was supposed sunk. The story is that a gentleman by the name of Morey invented the steamboat and when Fulton got credit for it, he got so mad that he sank the boat. ➤

## WISCONSIN . . .

**Eau Claire-Chippewa Falls Skin Divers Club**—Reporter K. R. Moore—The Eau Claire-Chippewa Falls Skin Divers club just recently completed the final class of this current season in our annual skin divers course. There was a total of seventy-seven students who enrolled for the course, of these eight failed to receive a certificate due to failure of either the written or physical examination or failed to complete the course.

Several members of the Eau Claire Sheriff's Dept. and Police Dept. have taken the course and are now using this skill and knowledge in their job of protection and law enforcement.

We feel that this is a wonderful way to promote skin diving in any area and highly recommend that any club that would like a good winter activity try a course such as ours. Feel free to call on us for any help that we may give. ➤

## WYOMING . . .

**Frontier Aqua Divers**—Cheyenne—Reporter Lee Gillespie—The club was officially formed in June with election of officers. They are Bernie Sterno, president; Dave Morris Jr, vice-president; Lee Gillespie, secretary-treasurer, and Marvin Barkdoll, diving master.

Anyone planning to visit Cheyenne is invited to join us. ➤

## ONTARIO . . .

**Sault Ste. Marie Search and Rescue Unit**—Reporter Lorne Moore—The Sault Ste. Marie Search and Rescue Unit, Marine Division has been organized to assist the various police agencies of the upper peninsula of Michigan and the Sault Ste. Marie, Ontario and District of Algoma, in the recovery of drowning victims and other mishaps that may occur in the area's waterways.

We have been successful in recovering two drowning victims and locating several stolen articles discarded in the St. Mary's River. We have sixteen fully equipped divers who give their time and services free of charge to anyone requesting it with reference to our type of work.

Would like to hear from any organization of this type and as to how they operate. Anyone interested in communicating with us could address communications to 741 Queen St. E., Sault Ste. Marie, Ontario, marked Marine Division, attention L. W. Moore. ➤

## Sub-Aqua Job Opportunities

This column is offered to any and all employees seeking divers for various positions in the firms. Copy should be brief giving complete name and address and state requirements needed from applicants. This is a service to the industry and the sport offered at no charge for the space used. Applicants for the jobs listed should write direct to the advertisers and not to "Sub Diver Magazine."

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## ARKANSAS...

Arkansas Mermen—Little Rock—Reporter Haydon Eagle—Officers of our club are Haydon Eagle, president; Milan Hopkins, treasurer, and Leslie Howitt, safety officer. We believe we are the first club in this state and any divers interested in joining us can write the reporter at 580 E. "B" St., Little Rock.

## CALIFORNIA...

California Marine Aquarists—Los Angeles—Reporter Jerry Fawcett—Our group won the sweepstakes trophy at the Hobby Show in the Shrine Auditorium. Jim Wright, Dave Baldwin, Jerry Goldsmith, Ted Broberg, Tex Maupin, John Kofmehl, and Kay Ragland helped set up and maintain the display at the show. Dealer members won many ribbons as did the following for showcase displays, Anna Saudek, Dr. Parkhurst and Dr. Wilson.

Sierra Aqua Fins—Chester—The divers in the Mt. Lassen-Lake Almanor area have formed a new club. Our club was but three days old when two experienced divers from the Bay area came to visit and dive with us. We have ordered a compressor and await its arrival.

## CONNECTICUT...

Norwalk Skin Diving Club—Reporter Gladys Johnson—At its annual meeting, the Norwalk Skin Diving Club elected officers for the coming year. Al Buttrick, was elected president. Vice-president is Jack Shaughnessy, Gladys Johnson, secretary, and Gordon Johnson, treasurer. These four with the two officers-at-large, Ken Woollett and Ed Bates, and Don Lasky, the retiring president, constitute the board of directors.

The spearfishing committee has scheduled six meets, four to be trophy meets. Sites range from Norwalk, Connecticut, to Fisher's Island, New York, and the Rhode Island coast. For the first time this year a trophy is to be awarded in scuba diving. Four dives are scheduled. One will include the forty foot qualifying dive for student divers from the club's winter courses. At a dive in a quarry, some members expect to descend to the hundred foot depth. Other events will include the following of compass courses and a treasure hunt.

## FLORIDA...

Spear N' Fin Club—Ft. Lauderdale—Reporter Dolores Lagiglia—Sunday, May 22, seventeen skin divers from the two local Fort Lauderdale diving clubs in the area, Spear N' Fin and Sea Lancers held the first in a series of monthly tournaments off Fort Lauderdale on the second reef. With safety stressed throughout, these meets are designed to promote competition and interest among the local divers. The tournament was strictly for the spearing of grouper, moray eels, barracuda and shark, with a certain number of points given per pound to each category.

Diving began promptly at 10:30 a.m. with George Losey and Denis Kull beginning the drop-off from the head boat carrying all the divers and equipment. It wasn't long before the first two catches, a ten pound moray and a twenty-two pound grouper, were brought aboard by George Losey. Those on board handling the weighing were confident these catches would win, but a half hour later Rick Balch surprised all with a fifteen pound moray. Rick Balch walked off with 120 points and a handsome trophy donated by Harbor Beach Marine and Tackle for his moray. Congratulations are in accord for Chuck Laird, too, for a close second of 116 points.

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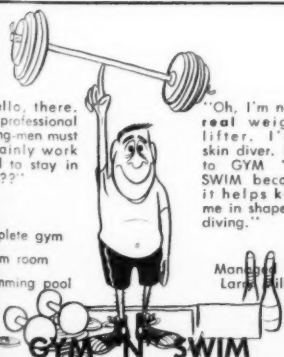
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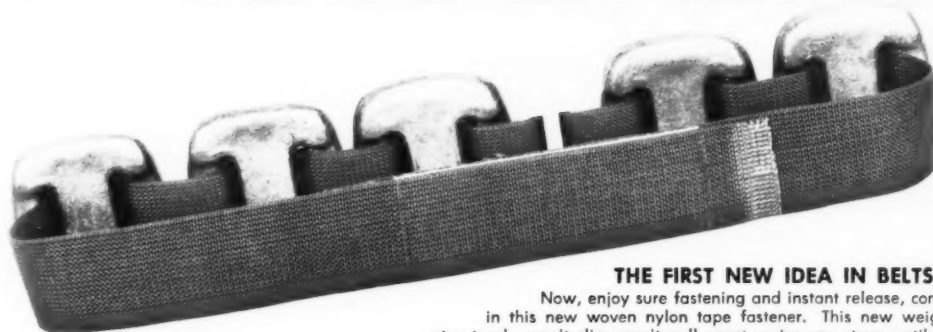
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